

# TC-RX55/RX55ES/RX410

## SERVICE MANUAL

*US Model*

TC-RX55ES/RX410

*Canadian Model*

TC-RX55/RX410

*AEP Model*

*UK Model*

*E Model*

TC-RX55



Photo: TC-RX410

### SPECIFICATIONS

#### Recording system

4-track 2-channel stereo

Fast winding Approx. 90 sec. (with C-60 cassette)

Bias AC Bias

Signal-to-noise ratio (NAB, at peak level)

	DOLBY NR switch	OFF	B-TYPE ON	C-TYPE ON
Cassette	—	—	—	—
TYPE IV (Sony METAL-ES)	58 dB	65 dB	71 dB	
TYPE II (Sony UX-S)	57 dB	64 dB	70 dB	
TYPE I (Sony HF-S)	54 dB	61 dB	67 dB	

#### Total harmonic distortion

1.0 % (with Sony METAL-ES cassettes)

#### Frequency response

DOLBY NR OFF

TC-RX410:

- With TYPE IV cassette (Sony METAL-ES)  
30–15,000 Hz ( $\pm 3$  dB)
- 30–13,000 Hz ( $\pm 3$  dB, OVU recording)
- With TYPE II cassette (Sony UX-S)  
30–15,000 Hz ( $\pm 3$  dB)
- With TYPE I cassette (Sony HF-S)  
30–14,000 Hz ( $\pm 3$  dB)

TC-RX55/RX55ES:

- With TYPE IV cassette (Sony METAL-ES)  
20–20,000 Hz ( $\pm 3$  dB)
- 30–15,000 Hz ( $\pm 3$  dB, OVU recording)
- With TYPE II cassette (Sony UX-S)  
30–17,000 Hz ( $\pm 3$  dB)
- With TYPE I cassette (Sony HF-S)  
30–15,000 Hz ( $\pm 3$  dB)

Model Name Using Similar Mechanism

TC-RX50/RX50ES  
TC-RX400

Tape Transport Mechanism Type

TCM-170RB11  
(TC-RX55/RX55ES)  
TCM-170RB13  
(TC-RX410)

Wow and flutter	0.09% WRMS (NAB)
Inputs	Microphone inputs (phone jack) Sensitivity 0.25 mV (-70dB) For a low-impedance microphone
	Line inputs (phono jacks) Sensitivity 77.5 mV (-20 dB) Input impedance 50k ohms
Outputs	Line outputs (phono jacks) Output level 0.44 V (-5 dB) at load impedance 47k ohms Load impedance over 10k ohms
	Headphones output (stereo phone jack) Output level -28 dB at load impedance 8 ohms

— Continued on next page —

**SEE ADDITIONAL INFORMATION**

**STEREO CASSETTE DECK**  
**SONY®**



**General**

## Power requirements

US, Canadian, E2 model: 120 V AC, 60 Hz  
AEP, E3 model: 220 V AC, 50/60 Hz  
UK model: 240 V AC, 50/60 Hz

## Power consumption

22 W (TC-RX410)  
19 W (TC-RX55/RX55ES)

## Dimensions

TC-RX410:  
Approx. 430 x 118 x 295 mm (w/h/d)  
(17 x 4 3/4 x 11 1/8 inches)  
TC-RX55/RX55ES:  
Approx. 430 x 120 x 285 mm (w/h/d)  
(17 x 4 3/4 x 11 1/4 inches)

including projecting parts and controls

## Weight

Approx. 3.9 kg (8 lbs 10 oz)

## Supplied accessory

Connecting cord (2)

Design and specifications are subject to change without notice.

## Features

- The Dolby HX PRO\* system to improve the linearity of the tape's high-range response during recording.
- Cue & review and memory play functions to provide easy access to a desired position.
- B and C type Dolby NR\* systems to reduce tape hiss noise.
- The optional remote control unit allows various operations to be remotely controlled.

\* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

**SAFETY-RELATED COMPONENT WARNING!!**

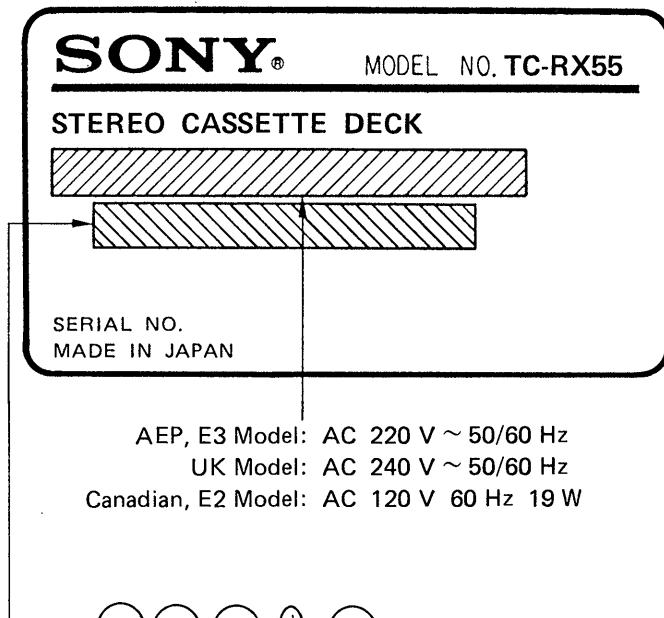
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

**MODEL IDENTIFICATION (TC-RX55)**

— Specification Label Printed on Back Panel —



AEP, E3 Model: AC 220 V ~ 50/60 Hz  
UK Model: AC 240 V ~ 50/60 Hz  
Canadian, E2 Model: AC 120 V 60 Hz 19 W

S D N  FI : AE2 only

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## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:  
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

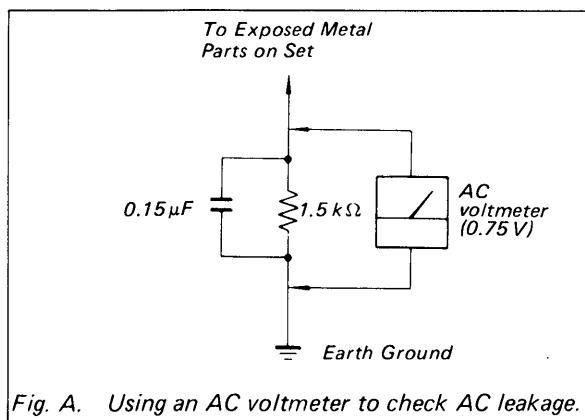
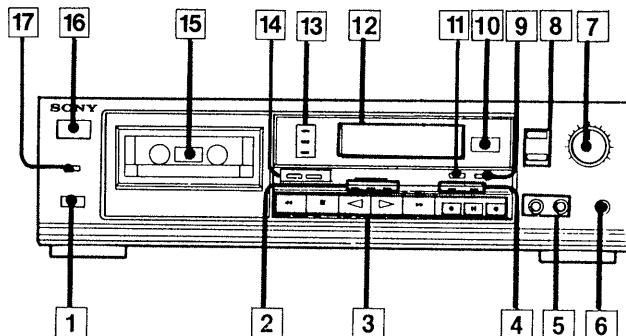


Fig. A. Using an AC voltmeter to check AC leakage.

## SECTION 1 GENERAL

### IDENTIFICATION OF FRONT PANEL PARTS



- 1 ▲ (eject) button
- 2 DIRECTION indicators
- 3 Tape operation buttons
  - ◀ (leftward fast winding) button
  - ▶ (rightward fast winding) button
  - ▶ (forward play) button
  - ◀ (reverse play) button
  - (stop) button
  - (pause) button
  - REC MUTE (record muting) button
  - REC (record) button
- 4 Tape transport mode indicators (REC, PAUSE)
- 5 MICROPHONE jacks (phone jacks)
- 6 HEADPHONES jack (stereo phone jack)

- 7 REC LEVEL (recording level) controls
- 8 DOLBY NR switches
- 9 DIRECTION MODE selector (TC-RX410)  
MPX FILTER switch (TC-RX55/RX55ES)
- 10 Remote control sensor  
You can remotely control this cassette deck with:
  - A remote commander that has an **R** mark and comes with a Sony amplifier or receiver and which can be used to control a cassette deck.
  - An optional Sony remote commander that has an **R** mark.
- 11 DIRECTION MODE selector (TC-RX55/RX55ES)
- 12 PEAK LEVEL METER and DIGITAL COUNTER (TC-RX55/RX55ES)
- 13 TAPE TYPE indicators (TC-RX55/RX55ES)
- 14 COUNTER RESET and MEMORY buttons (TC-RX55/RX55ES)
- 15 Cassette holder
- 16 POWER switch
- 17 TIMER switch (TC-RX55/RX55ES)

## SECTION 2 ADJUSTMENTS

**SEE ADDITIONAL INFORMATION**

### 2-1. MECHANICAL ADJUSTMENTS

#### PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
 

record/playback head	pinch roller
erase head	rubber belts
capstan	idler
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. Switch position
 

DOLBY NR	: OFF
B/C	: B
MPX FILTER	: OFF
DIRECTION MODE	: $\leftrightarrow$
TIMER	: OFF

#### Torque Measurement

Torque	Torque Meter	Meter Reading
FWD	CQ-102C	27 to 75g·cm (0.378 to 1.05 oz·inch)
FWD Back tension	CQ-102C	1 to 10g·cm (0.014 to 0.14 oz·inch)
REV	CQ-102RC	27 to 75g·cm (0.378 to 1.05 oz·inch)
REV Back Tension	CQ-102RC	1 to 10g·cm (0.014 to 0.14 oz·inch)
FF, REW	CQ-102B	95 to 165g·cm (1.33 to 2.31 oz·inch)

### 2-2. ELECTRICAL ADJUSTMENTS

**Note** : The adjustment should be performed in the order given in the service manual.

The adjustments should be performed for both L-CH and R-CH.

• Switches and controls should be set as follows unless otherwise specified.

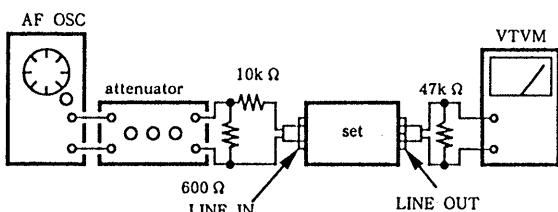
DOLBY NR switch	: OFF
DIRECTION MODE switch	: $\leftrightarrow$
TIMER switch	: OFF
TAPE SELECT switch	: According to the tape type.

Tape	TAPE Switch
CS-17	TYPE I
CS-26	TYPE II
CS-42	TYPE IV

#### • Standard Record :

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

#### — Record Mode —



#### Standard Input Level

	LINE IN
source impedance	10k Ω
input level	0.25V (-10dB)

#### Standard Output Level

	LINE OUT
load impedance	47k Ω
output level	0.44V (-5dB)

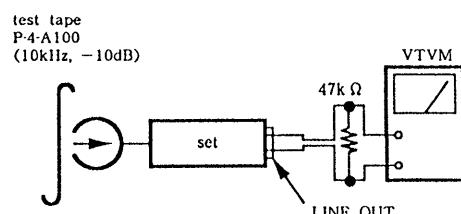
#### • Test tape

Type	Signal	Used for
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB LEVEL Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

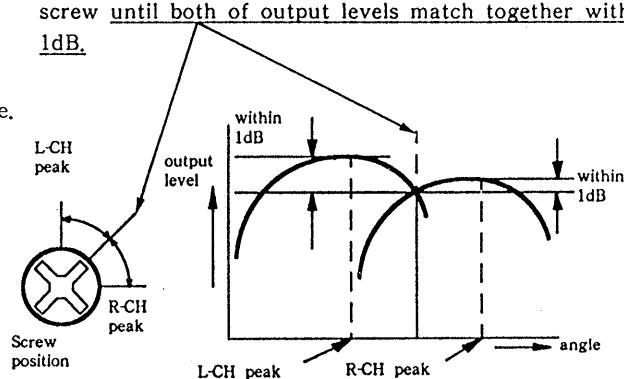
#### Record/Playback Head Azimuth Adjustment

##### Procedure :

1. Mode : FWD playback

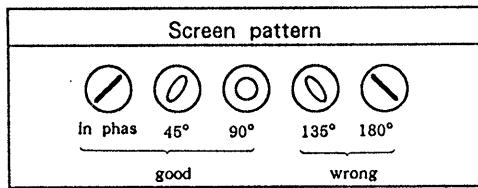
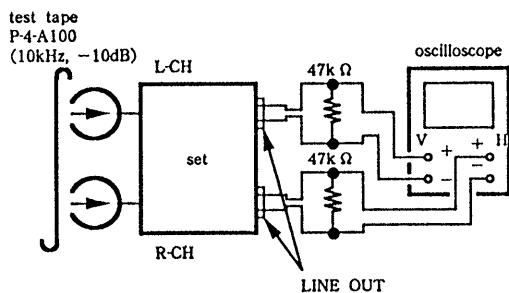


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



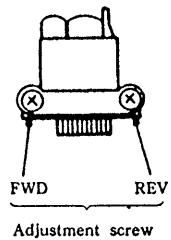
### 3. Phase Check

Mode : playback



- Set in the REV mode and repeat the step 1-3.
- After the adjustment, lock the screws with locking compound.

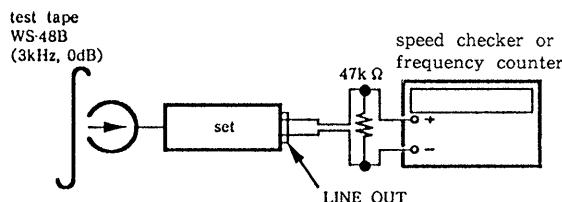
**Adjustment Location :** Record/Playback head



### Tape Speed Adjustment

**Procedure :**

Mode : FWD playback



### Specifications :

SPEED CHECKER	FREQUENCY COUNTER
0,19%	2,965~2,995Hz

Adjust the variable resistor which built-in the motor so that the frequency difference between the beginning and the end of the tape should be contented within 1.5% (45Hz).

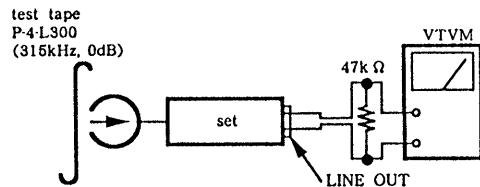
### Adjustment Location :

: motor (M901) rear side

### Playback Level Adjustment

**Procedure :**

Mode : playback



Adjust RV41 (L-CH), RV61 (R-CH) so that the reading on VTVM meets the specification below.

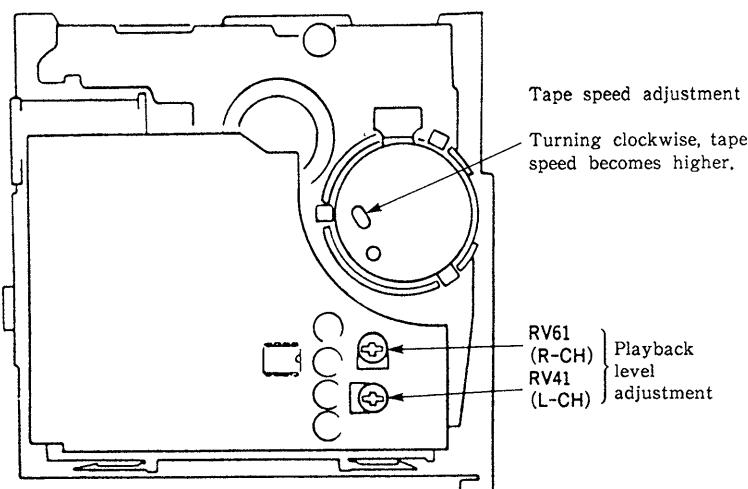
### Specification :

LINE OUT level :  $-5 \pm 0.5\text{dB}$  (0.41~0.46V)

Level difference between channels : less than 0.5dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

**Adjustment Location :** MD (B) board



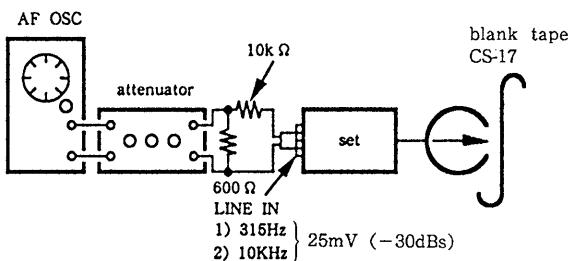
## Record Bias Adjustment

### Setting :

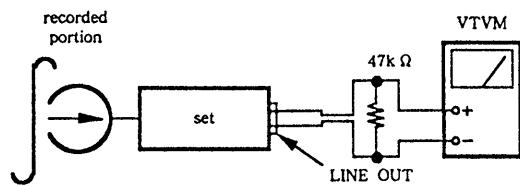
REC LEVEL control : standard record (See page 4.)

### Procedure :

#### 1. Mode : record

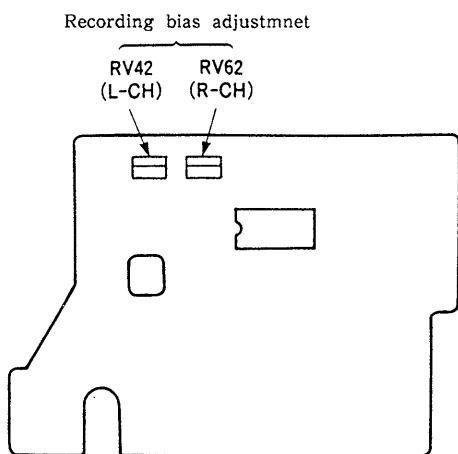


#### 2. Mode : playback



Confirm that the 10kHz playback output is  $0 \pm 0.5$ dB relative to the 315Hz output. If necessary, adjust RV42 (L-CH), RV62 (R-CH) and repeat the steps given above.

**Adjustment Location :** HX PRO board



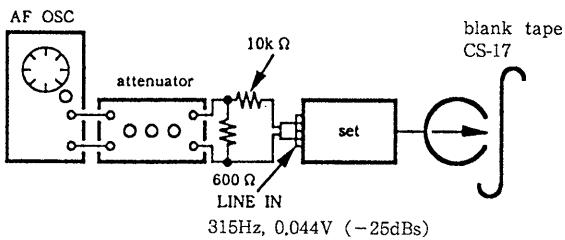
## Record Level Adjustment

### Setting :

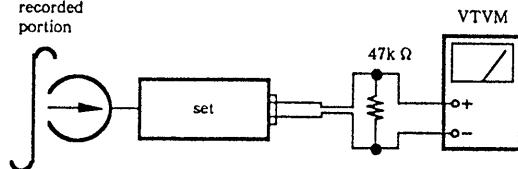
REC LEVEL control : standard record (See page 4.)

### Procedure :

#### 1. Mode : record



#### 2. Mode : playback

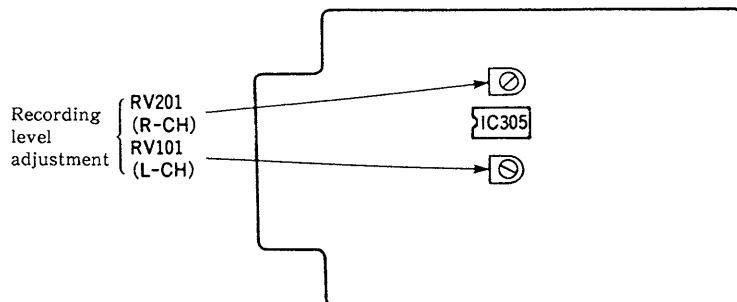


#### 3. Play back the signal recorded in step 1.

Confirm that the signal level is within the specification below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

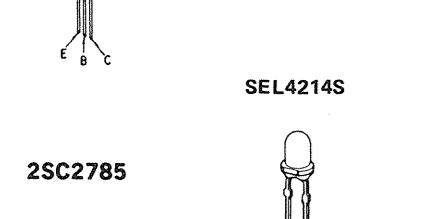
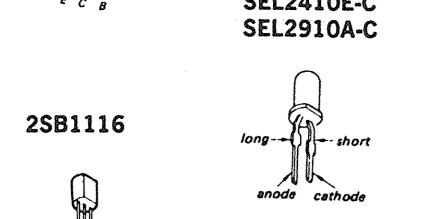
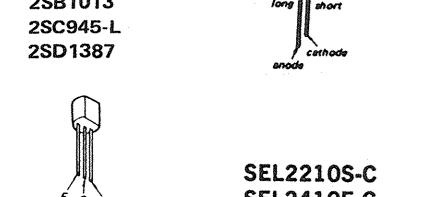
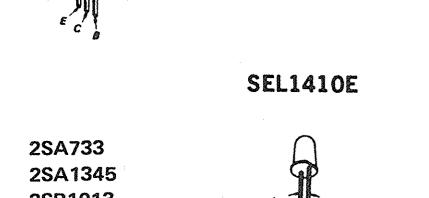
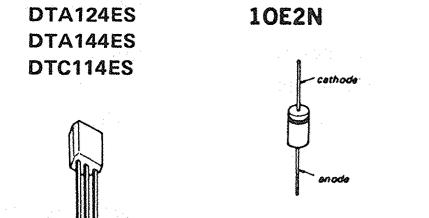
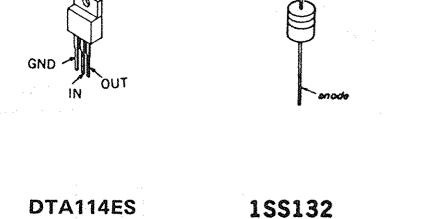
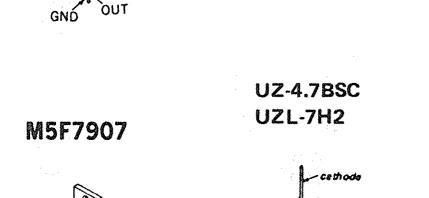
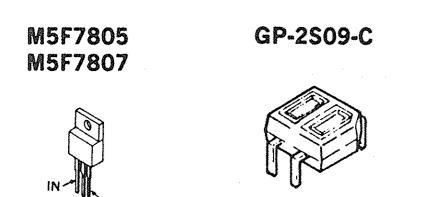
**Specification:** LINE OUT level :  $-25dB \pm 0.5$ dBs (0.041~0.046V)

### Adjustment Location : MAIN board



### SECTION 3 DIAGRAMS

#### • Semiconductor Lead Layouts



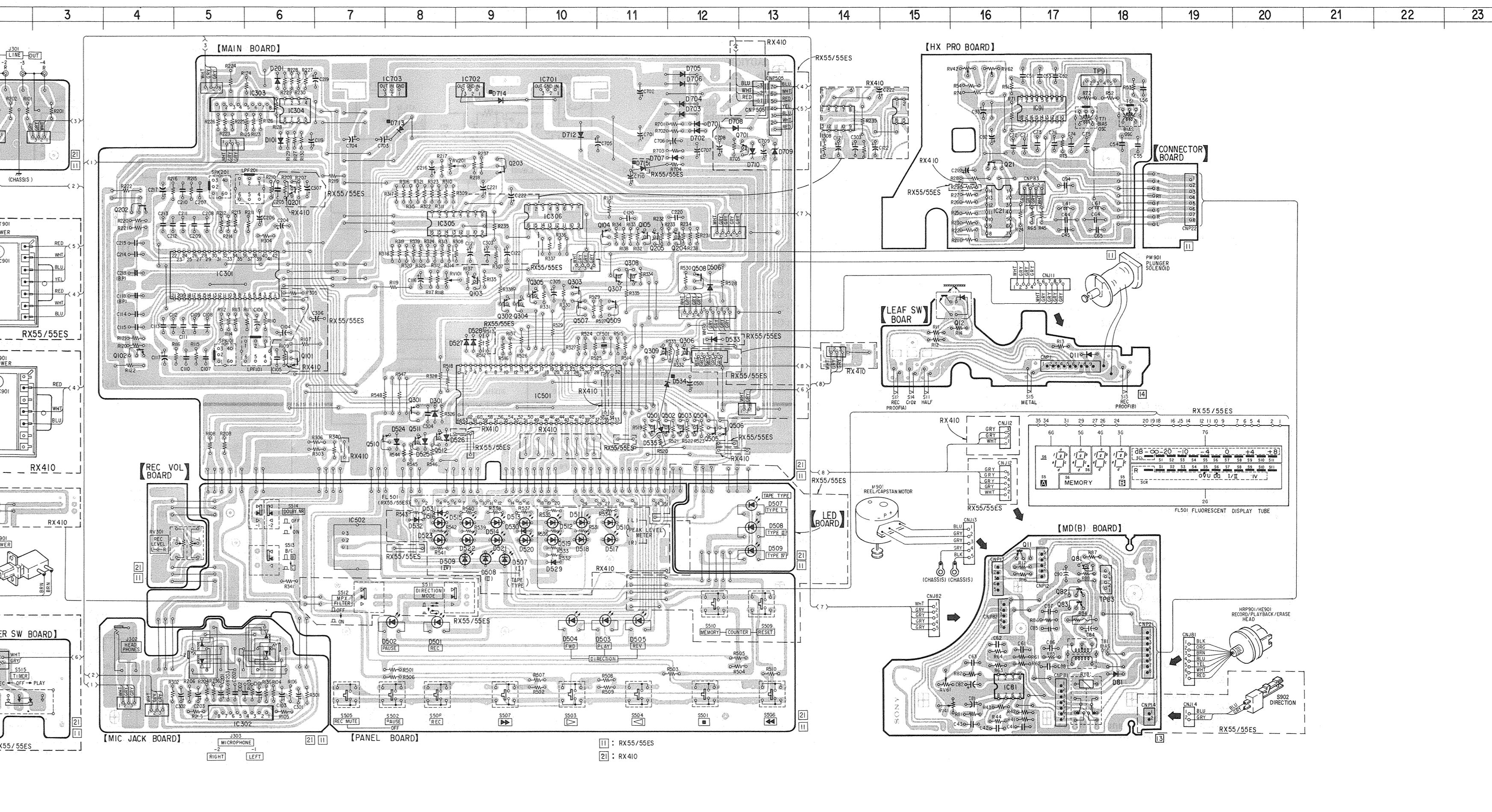
#### • Semiconductor Location

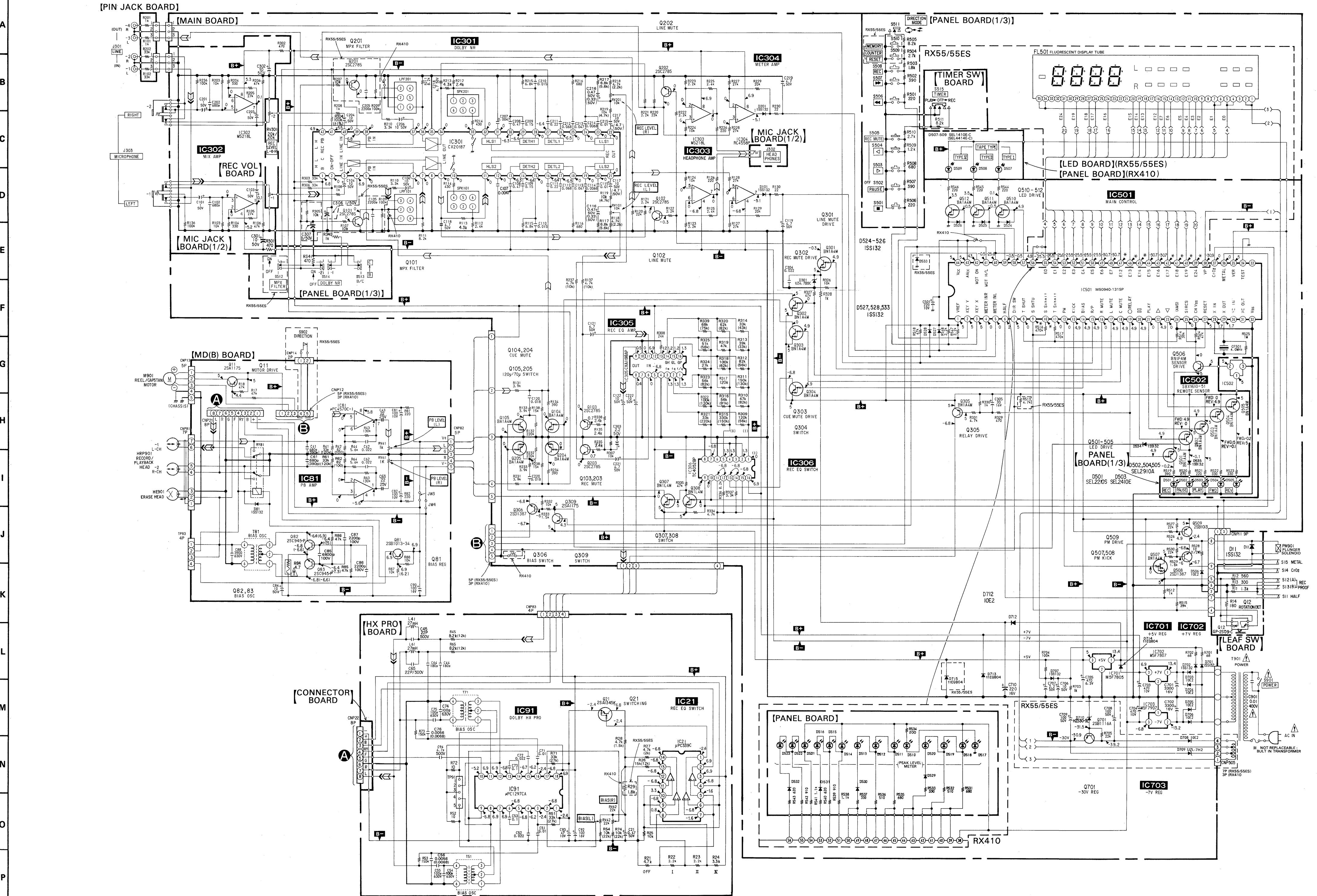
##### SEL4414E-D

Ref. No.	Location	Ref. No.	Location
D11	E-17	IC21	C-16
D81	J-18	IC81	J-16
D101	9-6	IC91	B-17
D201	A-6	IC301	D-5
D301	I-8	IC302	J-5
D501	I-8	IC303	B-6
D502	I-1	IC304	B-6 (RX410)
D503	I-11	IC305	C-8
D504	I-10	IC306	C-10
D505	I-11	IC501	F-10
D506	D-12	IC502	H-7
D507	G-13 (RX55/55ES)	IC701	A-10 (RX410)
D507	H-9 (RX410)	IC702	A-9
D508	H-13 (RX55/55ES)	IC703	A-8
D508	H-13 (RX410)	Q11	H-17
D509	H-9 (RX55/55ES)	Q12	E-16
D509	H-9 (RX410)	Q21	C-16
D510	H-11 (RX410)	Q81	H-17
D511	H-10 (RX410)	Q82	I-17
D512	H-10 (RX410)	Q101	E-6 (RX410)
D513	H-9 (RX410)	Q102	E-4
D514	H-9 (RX410)	Q103	D-9
D515	H-9 (RX410)	Q104	D-11
D516	H-8 (RX410)	Q105	D-11
D517	H-11 (RX410)	Q201	C-6 (RX410)
D518	H-10 (RX410)	Q202	C-4
D519	H-9 (RX410)	Q203	C-9
D520	H-9 (RX410)	Q204	D-12
D521	H-9 (RX410)	Q205	D-11
D522	H-8 (RX410)	Q301	F-8
D523	H-8 (RX410)	Q302	E-9
D524	F-8	Q303	D-10
D525	F-8	Q304	E-9
D526	E-9	Q305	D-10
D527	E-9	Q306	E-12
D528	E-9	Q307	D-11
D529	H-10 (RX410)	Q308	D-11
D530	H-9 (RX410)	Q309	E-11
D531	G-8 (RX410)	Q501	F-11
D532	H-8 (RX410)	Q502	F-11
D533	E-12 (RX55/55ES)	Q503	F-12
D534	F-12	Q504	F-12
D535	F-12	Q505	F-12
D701	B-12	Q506	F-12
D702	B-12 (RX410)	Q507	E-10
D703	B-12 (RX410)	Q508	D-12
D704	A-12 (RX410)	Q509	E-11
D705	A-12 (RX410)	Q510	F-8
D706	B-12	Q511	F-8
D707	B-12 (RX55/55ES)	Q512	F-8
D709	B-13 (RX55/55ES)	Q701	B-13 (RX55/55ES)
D710	B-10		
D712	B-8		
D713	B-9		
D714	B-11 (RX55/55ES)		
D715			

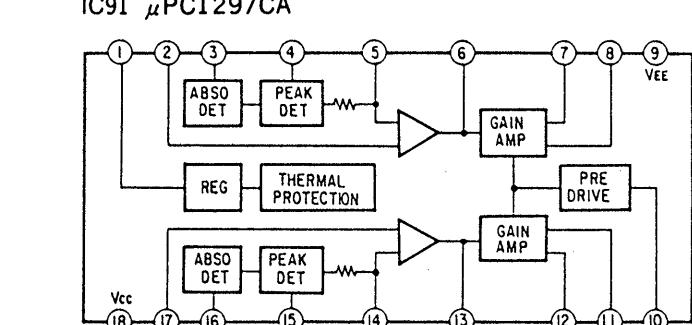
#### Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : indicates side identified with part number.





## ● IC Block Diagram



**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\mu\text{F}$   
50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.

no mark: PB  
(      ): REC

- Voltages are taken with a VOM (10 M $\Omega$ /V).  
Voltage variations may be noted due to normal production tolerances.
- Signal path.

**Note:**  
The components identified by mark  or dotted line with mark  are critical for safety.  
Replace only with part number specified.

**Note:**  
Les composants identifiés par une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

## **SECTION 4**

# **EXPLODED VIEWS**

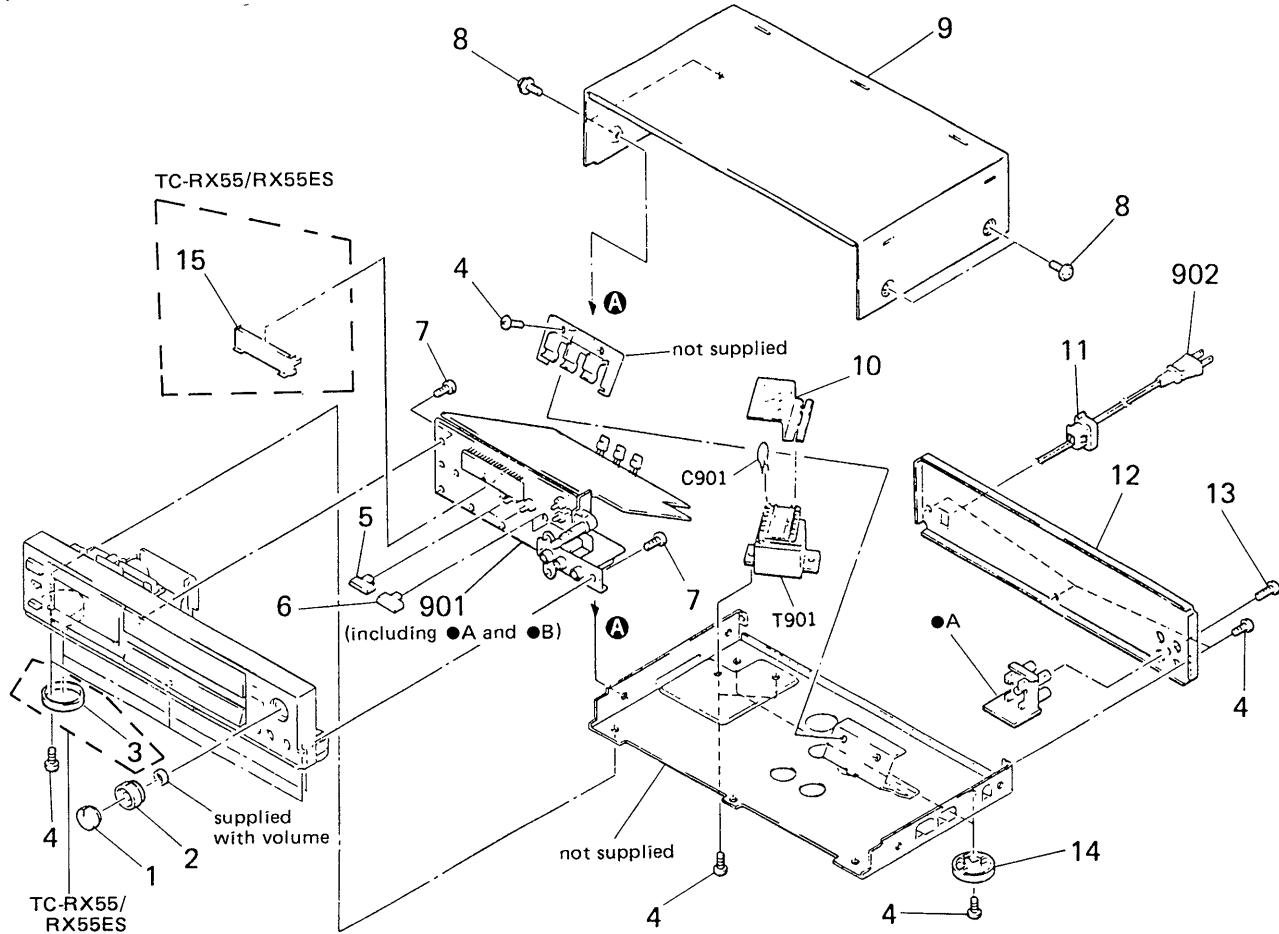
**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by mark  or dotted line with mark  are critical for safety.  
Replace only with part number specified.

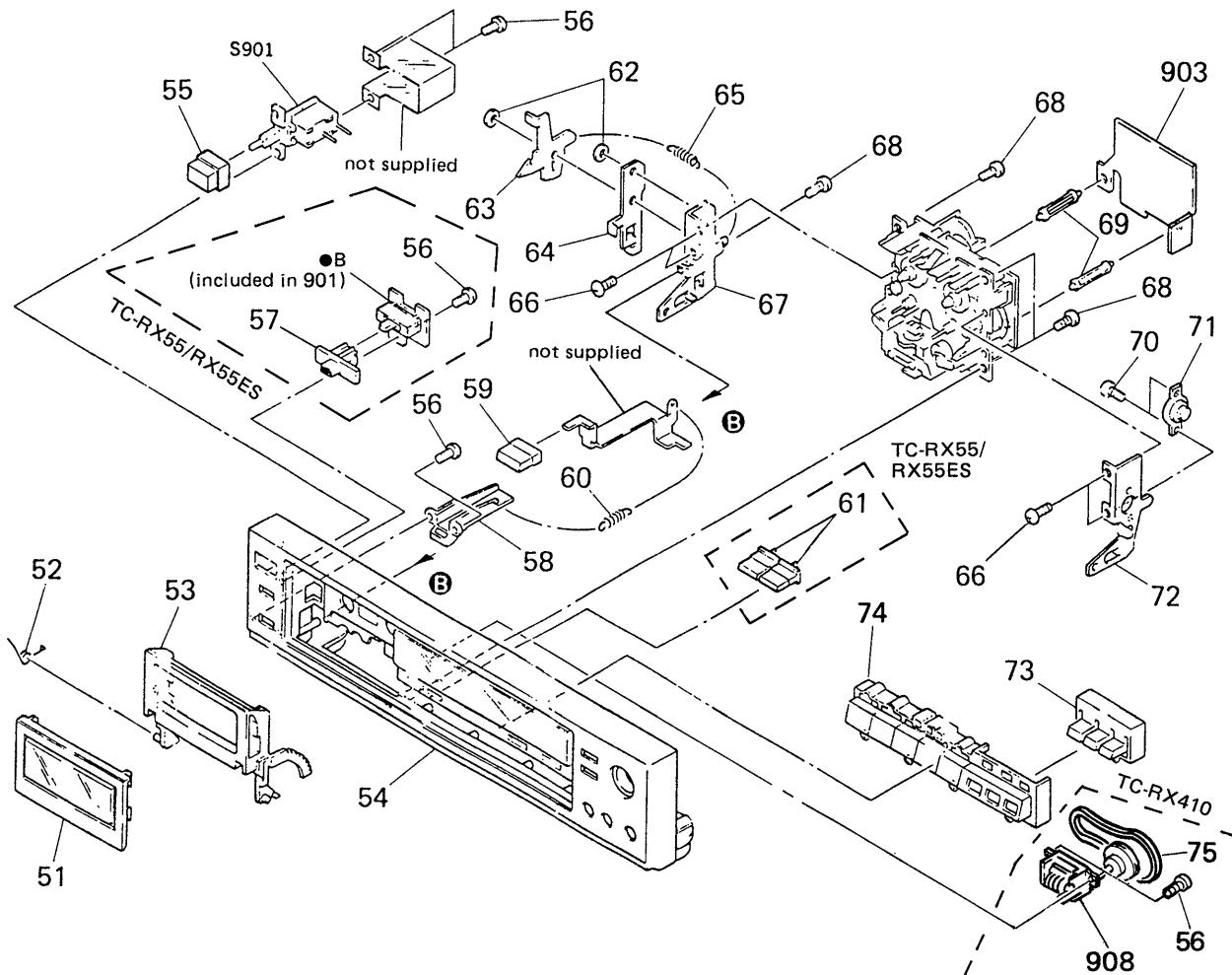
Les composants identifiés par une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

## (1) CABINET AND MAIN BOARDS SECTION



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-332-590-01	KNOB (REC VOL-RIGHT)		13	7-621-849-00	SCREW, TAPPING	
2	3-332-589-01	KNOB (REC VOL-LEFT)		14	X-4885-935-1	(RX55:AEP/UK/E3,RX55ES)....FOOT ASSY	
3	4-929-030-11	(RX55,RX55ES)...RING (DIA.58A), ORNAMENTAL		15	X-4911-201-1	(RX410,RX55:Canadian/E2)...FOOT ASSY	
4	7-682-548-04	SCREW +BVTT 3X8 (S)		901	*3-350-824-01	(RX55,RX55ES) ...HOLDER (FL)	
5	3-350-810-01	BUTTON		902	*A-2006-064-A	(RX55,RX55ES)...MOUNTED PCB, AUDIO	
6	3-350-809-01	BUTTON			*A-2006-073-A	(RX410).....MOUNTED PCB, AUDIO	
7	4-928-635-01	SCREW, +BV (2.6X8) TAPPING			▲.1-551-506-XX	(US,Canadian,E3)...CORD, POWER	
8	3-704-366-01	SCREW (CASE) (M3X8)			▲.1-551-884-32	(UK).....CORD, POWER	
9	3-332-578-61	CASE			▲.1-555-795-00	(AEP,E3)....CORD, POWER, EURO PLUG	
10	*3-337-136-01	COVER, TRANSFORMER SAFETY		C901	▲.1-161-744-00	CAP, CERAMIC 10000PF FZ	
11	*3-703-244-00	(AEP,UK,E3)...BUSHING (2104), CORD					
	3-703-571-00	(US,Canadian,E2) ...BUSHING (S) (4516), CORD					
12	*3-350-802-11	(RX55:UK).....PANEL, BACK					
	*3-350-802-21	(RX55:AE1/West Germany/E3)...PANEL, BACK					
	*3-350-802-31	(RX55:AE2).....PANEL, BACK					
	*3-350-802-41	(RX55ES).....PANEL, BACK					
	*3-350-802-51	(RX410).....PANEL, BACK					
	*3-350-802-61	(RX55,Canadian)...PANEL, BACK					

(2) FRONT PANEL SECTION

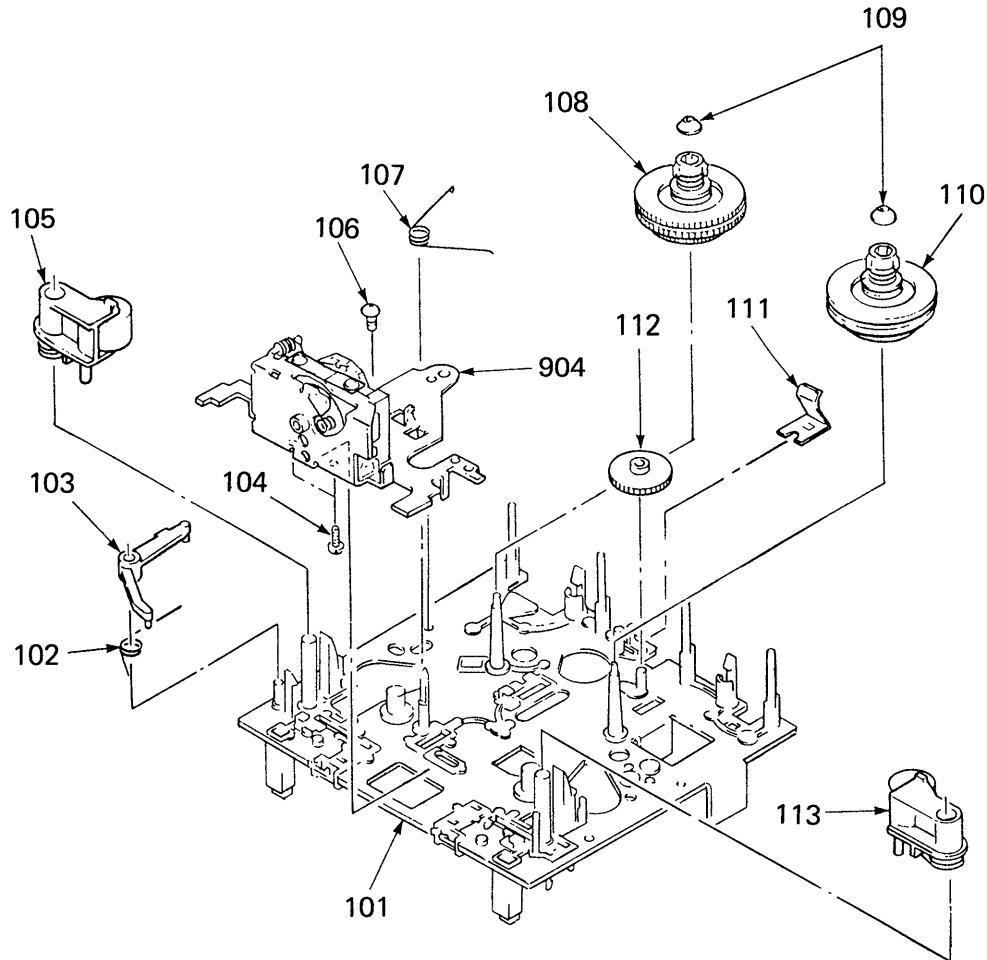


No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-3332-555-1	(RX55ES)...LID ASSY, CASSETTE		64	*3-346-306-01	LEVER (EJECT)	
	X-3332-556-1	(RX55)....LID ASSY, CASSETTE		65	3-312-432-00	SPRING, TENSION	
	X-3332-560-1	(RX410)....LID ASSY, CASSETTE		66	7-621-773-86	SCREW +BVTT 2.6X4 (S)	
52	3-346-336-01	SPRING, TORSION		67	*X-3332-487-1	BRACKET ASSY (B)	
53	X-3332-482-1	HOLDER ASSY, CASSETTE		68	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
54	X-3332-558-1	(RX55ES)...PANEL ASSY, FRONT		69	*3-682-419-21	HOLDER, P.C.B	
	X-3332-559-1	(RX55)....PANEL ASSY, FRONT		70	7-621-255-15	SCREW +PTT 2X3 (S)	
	X-3332-561-1	(RX410)....PANEL ASSY, FRONT		71	3-319-224-31	DAMPER, SMALL	
55	4-917-460-01	KNOB, POWER		72	*3-346-305-01	BRACKET (DAMPER)	
56	4-928-635-01	SCREW, +BV (2.6X8) TAPPING		73	3-350-813-01	BUTTON (B)	
57	3-307-538-11	(RX55,RX55ES)...KNOB, SWITCH, TIMER		74	3-350-819-01	BUTTON (A)	
58	*3-349-017-01	RETAINER, SLIDER		75	3-506-040-XX	(RX410)...BELT, SQUARE	
59	3-343-698-21	BUTTON (EJECT)		903	*1-630-423-11	PC BOARD, HX PRO	
60	3-662-752-21	SPRING, TENSION		908	1-548-596-31	(RX410)...COUNTER, TAPE (MIDDLE TYPE)	
61	3-350-812-01	(RX55,RX55ES)...BUTTON (COUNTER)		S901	Δ.1-553-318-71	SWITCH, PUSH (AC POWER)(1 KEY)	
62	3-558-708-21	WASHER, STOPPER		T901	Δ.1-449-596-11	(RX55ES,RX55:Canadian/E2) ...TRANSFORMER, POWER	
63	*3-343-449-01	LEVER (LOCK LEVER)		T901	Δ.1-449-597-11	(RX55:AEP/UK/E3)...TRANSFORMER, POWER	
				T901	Δ.1-449-598-11	(RX410).....TRANSFORMER, POWER	

**Note:**  
The components identified by mark **Δ** or dotted line with mark **Δ** are critical for safety. Replace only with part number specified.

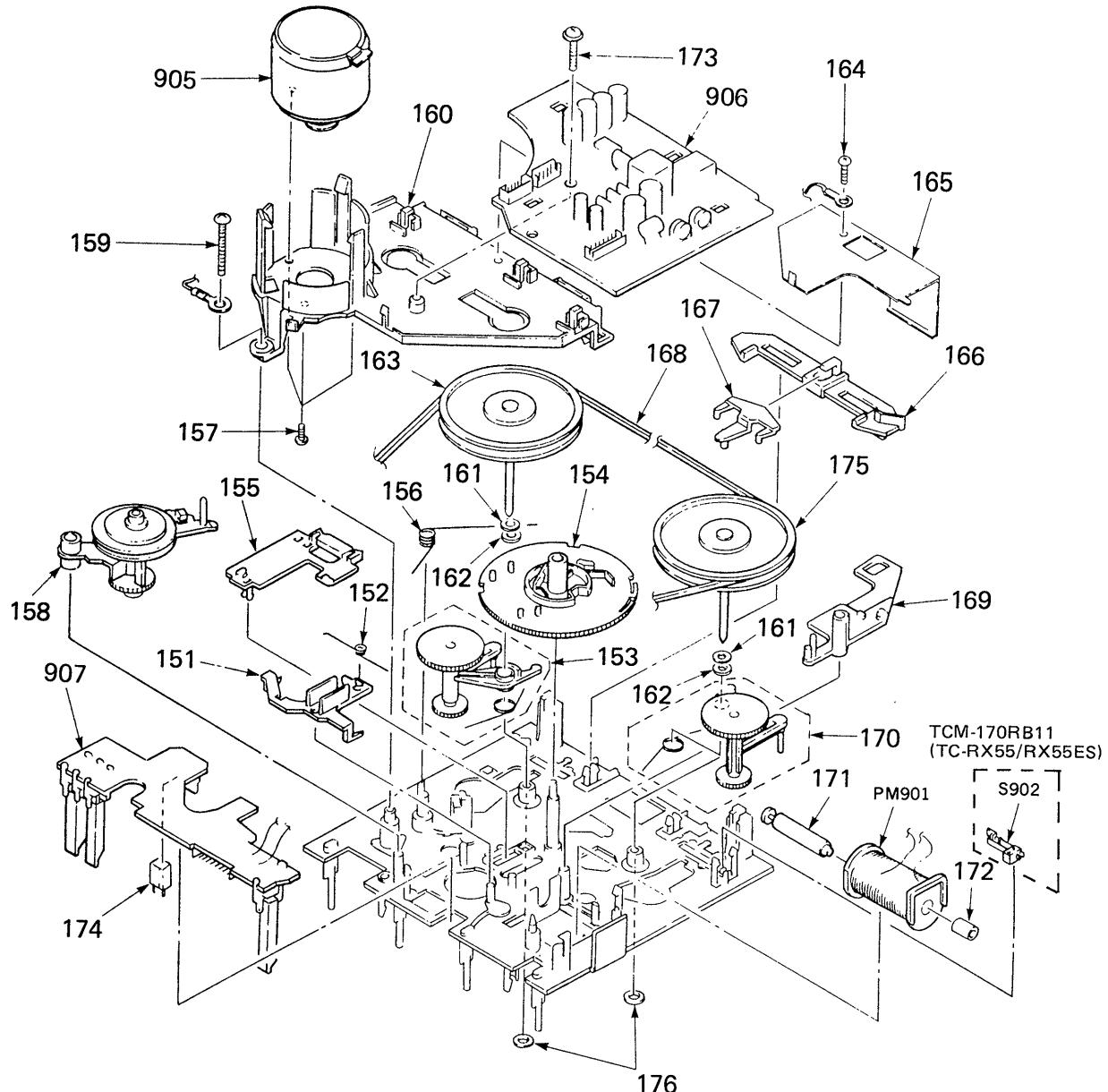
**Note:**  
Les composants identifiés par une marque **Δ** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(3) TAPE TRANSPORT MECHANISM SECTION-1  
(TCM-170RB11 (TC-RX55/RX55ES)/170RB13 (TC-RX410))



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	*X-3343-418-1	CHASSIS ASSY, MECHANICAL		109	3-343-439-01	CAP (REEL TABLE)	
102	3-343-477-01	SPRING, TORSION (EJECT SAFETY)		110	X-3343-401-1	TABEL ASSY, REEL	
103	*3-343-476-01	LEVER (EJECT SAFETY LEVER)		111	3-343-420-01	SPRING, LEAF	
104	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2		112	3-343-411-01	GEAR (FF GEAR)	
105	X-3343-403-1	LEVER (PINCH LEVER REV) ASSY		113	X-3343-402-1	LEVER (PINCH LEVER FWD) ASSY	
106	7-621-773-86	SCREW +BVTT 2.6X4 (S)		904	A-2108-124-A	(RX55,RX55ES)	
107	3-343-401-01	SPRING, TORSION				...CHASSIS ASSY, HEAD (HE901,HRP901)	
108	X-3343-415-1	TABEL (REV) ASSY, REEL			A-2108-130-A	(RX410)	
						...CHASSIS ASSY, HEAD (HE901,HRP901)	

**(4) TAPE TRANSPORT MECHANISM SECTION-2  
(TCM-170RB11 (TC-RX55/RX55ES)/170RB13 (TC-RX410))**



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	3-343-453-01	SLIDER (BRAKE PLATE)		166	*3-343-457-01	SLIDER (REVERSE SLIDER)	
152	3-343-429-01	SPRING, TORSION		167	3-343-462-01	LEVER	
153	X-3343-406-1	LEVER (TU ARM REV) ASSY		168	3-343-462-02	BELT (CAPSTAN BELT SQUARE)	
154	3-343-470-01	GEAR (CAM GEAR)		169	3-343-493-01	LEVER (PM LEVER)	
155	*3-343-461-01	SLIDER		170	X-3343-405-1	LEVER (TU ARM FWD) ASSY	
156	3-343-430-01	SPRING, TORSION		171	*3-343-425-01	ARBOR(MOVABLE IRON ARBOR),IRON	
157	7-627-556-28	SCREW +P 2.6X3.5		172	*3-343-424-01	ARBOR (FIXED IRON ARBOR), IRON	
158	X-3343-414-1	LAVER (FR ARM) ASSY		173	3-343-404-01	SCREW (PTPWH 2X10)	
159	3-343-403-01	SCREW (PTTWH 2X18)		174	*3-343-419-01	HOLDER (S SENSER A)	
160	*X-3343-407-1	BASE (THRUST RETAINER) ASSY		175	X-3343-431-1	FLYWHEEL (REV) COMPLETE ASSY	
161	4-605-835-11	WASHER (2.6), POLYSLIDER		176	3-343-473-01	WASHER, NYLON	
162	3-307-482-00	WASHER, LUMILER		905	X-3343-408-1	MOTOR ASSY (M901)	
163	X-3343-429-1	FLYWHEEL COMPLETE ASSY		906	*1-629-211-11	PC BOARD, MD (B)	
164	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT		907	*1-624-148-11	PC BOARD, LEAF SW	
165	3-343-480-01	PLATE, SHIELD		PM901	1-454-456-11	SOLENOID, PLUNGER	
				S902	1-571-028-11	(RX55,RX55ES)...SWITCH, LEAF (DIRECTION)	

## SECTION 5

### ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

**CAPACITORS:**MF:  $\mu$ F, PF:  $\mu\mu$ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

**COILS**

- MMH: mH, UH:  $\mu$ H

**SEMICONDUCTORS**

In each case, U:  $\mu$ , for example:  
 UA...:  $\mu$ A..., UPA...:  $\mu$ PA...,  
 UPC...:  $\mu$ PC, UPD...:  $\mu$ PD...

The components identified by mark  or dotted line with mark  are critical for safety.  
 Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.  
 Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
901	*A-2006-064-A	(RX55,RX55ES)...MOUNTED PCB, AUDIO				C85	1-130-856-00	FILM	0.0068MF	5%	100V
	*A-2006-073-A	(RX410).....MOUNTED PCB, AUDIO				C86	1-136-230-00	FILM	0.0022MF	5%	100V
902	 .1-551-506-XX	(US,Canadian,E)...CORD, POWER				C87	1-136-230-00	FILM	0.0022MF	5%	100V
	 .1-551-884-32	(UK).....CORD, POWER				C88	1-136-558-11	FILM	0.0039MF	5%	630V
	 .1-555-795-00	(AEP,E3)...CORD, POWER, EURO PLUG				C90	1-126-101-11	ELECT	100MF	20%	16V
903	*1-630-423-11	PC BOARD, HX PRO				C92	1-126-101-11	ELECT	100MF	20%	16V
904	A-2108-124-A	(RX55,RX55ES)...CHASSIS ASSY, HEAD				C93	1-124-446-11	ELECT	4.7MF	20%	10V
		(HE901,HP901)				C94	1-107-046-00	MICA	4.7PF	0.5PF	500V
	A-2108-130-A	(RX410)...CHASSIS ASSY, HEAD				C101	1-124-499-11	ELECT	1MF	20%	50V
905	X-3343-408-1	MOTOR ASSY (M901)				C102	1-162-292-31	CERAMIC	680PF	10%	50V
906	*1-629-211-11	PC BOARD, MD (B)				C103	1-124-499-11	ELECT	1MF	20%	50V
907	*1-624-148-11	PC BOARD, LEAF SW				C104	1-123-875-11	ELECT	10MF	20%	50V
908	1-548-596-31	(RX410)...COUNTER, TAPE (MIDDLE TYPE)				C105	1-161-375-00	(RX55,RX55ES)...CERAMIC	0.0022MF	30%	16V
C21	1-124-902-00	ELECT	0.47MF	20%	50V	C106	1-123-875-11	ELECT	10MF	20%	50V
C41	1-110-342-11	(RX410).....MYLAR 390PF	5%	50V	C107	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C41	1-130-469-00	(RX55,RX55ES)...MYLAR 680PF	5%	50V	C108	1-136-173-00	FILM	0.47MF	5%	50V	
C42	1-136-157-00	FILM	0.022MF	5%	50V	C109	1-136-167-00	FILM	0.15MF	5%	50V
C43	1-124-282-00	ELECT	22MF	20%	25V	C110	1-136-155-00	FILM	0.015MF	5%	50V
C44	1-162-285-31	CERAMIC	180PF	10%	50V	C111	1-136-169-00	FILM	0.22MF	5%	50V
C45	1-107-210-00	MICA	22PF	5%	500V	C112	1-136-163-00	FILM	0.068MF	5%	50V
C51	1-136-153-00	FILM	0.01MF	5%	50V	C113	1-136-161-00	FILM	0.047MF	5%	50V
C52	1-136-157-00	FILM	0.022MF	5%	50V	C114	1-130-481-00	MYLAR	0.0068MF	5%	50V
C53	1-136-165-00	FILM	0.1MF	5%	50V	C115	1-136-153-00	FILM	0.01MF	5%	50V
C54	1-136-433-11	FILM	100PF	5%	630V	C116	1-124-252-00	(RX410).....ELECT	0.33MF	20%	50V
C55	1-136-433-11	FILM	100PF	5%	630V	C116	1-124-902-00	(RX55,RX55ES)...ELECT	0.47MF	20%	50V
C56	1-130-468-00	(RX55,RX55ES)...MYLAR 560PF	5%	50V	C117	1-123-875-11	(RX55,RX55ES)...ELECT	10MF	20%	50V	
C56	1-130-469-00	(RX410).....MYLAR 680PF	5%	50V	C117	1-124-927-11	(RX410).....ELECT	4.7MF	20%	50V	
C61	1-110-342-11	(RX410).....MYLAR 390PF	5%	50V	C118	1-124-768-11	ELECT	4.7MF	20%	50V	
C61	1-130-469-00	(RX55,RX55ES)...MYLAR 680PF	5%	50V	C119	1-124-927-11	ELECT	4.7MF	20%	50V	
C61	1-110-342-11	(RX410).....MYLAR 390PF	5%	50V	C120	1-136-156-00	FILM	0.018MF	5%	50V	
C62	1-136-157-00	FILM	0.022MF	5%	50V	C121	1-124-927-11	ELECT	4.7MF	20%	50V
C63	1-124-282-00	ELECT	22MF	20%	25V	C122	1-123-875-11	ELECT	10MF	20%	50V
C64	1-162-285-31	CERAMIC	180PF	10%	50V	C201	1-124-499-11	ELECT	1MF	20%	50V
C65	1-107-210-00	MICA	22PF	5%	500V	C202	1-162-292-31	CERAMIC	680PF	10%	50V
C71	1-136-153-00	FILM	0.01MF	5%	50V	C203	1-124-499-11	ELECT	1MF	20%	50V
C72	1-136-157-00	FILM	0.022MF	5%	50V	C204	1-123-875-11	ELECT	10MF	20%	50V
C73	1-136-165-00	FILM	0.1MF	5%	50V	C205	1-161-375-00	(RX55,RX55ES)...CERAMIC	0.0022MF	30%	16V
C74	1-136-433-11	FILM	100PF	5%	630V	C206	1-123-875-11	ELECT	10MF	20%	50V
C75	1-136-433-11	FILM	100PF	5%	630V	C207	1-130-479-00	MYLAR	0.0047MF	5%	50V
C76	1-130-468-00	(RX55,RX55ES)...MYLAR 560PF	5%	50V	C208	1-136-173-00	FILM	0.47MF	5%	50V	
C76	1-130-469-00	(RX410).....MYLAR 680PF	5%	50V	C209	1-136-167-00	FILM	0.15MF	5%	50V	
C81	1-124-443-00	ELECT	100MF	20%	10V	C210	1-136-155-00	FILM	0.015MF	5%	50V
C82	1-124-443-00	ELECT	100MF	20%	10V	C211	1-136-169-00	FILM	0.22MF	5%	50V
C84	1-123-875-11	ELECT	10MF	20%	50V	C212	1-136-163-00	FILM	0.068MF	5%	50V
						C213	1-136-161-00	FILM	0.047MF	5%	50V

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description				
C214	1-130-481-00	MYLAR	0.0068MF	5%	50V		D504	8-719-301-60	LED SEL2910A-C				
C215	1-136-153-00	FILM	0.01MF	5%	50V		D505	8-719-301-60	LED SEL2910A-C				
C216	1-124-902-00	(RX55,RX55ES)...ELECT	0.47MF	20%	50V		D506	8-719-200-77	DIODE 10E2N				
C216	1-124-252-00	(RX410).....ELECT	0.33MF	20%	50V		D507	8-719-302-52	(RX55,RX55ES)...LED SEL1410E				
C217	1-123-875-11	(RX55,RX55ES)...ELECT	10MF	20%	50V		D507	8-719-304-38	(RX410).....DIODE SEL4414E-D				
C217	1-124-927-11	(RX410).....ELECT	4.7MF	20%	50V		D508	8-719-302-52	(RX55,RX55ES)...LED SEL1410E				
C218	1-124-768-11	ELECT	4.7MF	20%	50V		D508	8-719-304-38	(RX410).....DIODE SEL4414E-D				
C219	1-124-927-11	ELECT	4.7MF	20%	50V		D509	8-719-302-52	(RX55,RX55ES)...LED SEL1410E				
C220	1-136-156-00	FILM	0.018MF	5%	50V		D509	8-719-304-38	(RX410).....DIODE SEL4414E-D				
C221	1-124-927-11	ELECT	4.7MF	20%	50V		D510	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C222	1-123-875-11	ELECT	10MF	20%	50V		D511	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C301	1-123-875-11	ELECT	10MF	20%	50V		D512	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C302	1-123-875-11	ELECT	10MF	20%	50V		D513	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C303	1-124-925-11	ELECT	2.2MF	20%	50V		D514	8-719-304-32	(RX410)....DIODE SEL4214S				
C304	1-161-494-00	CERAMIC	0.022MF		25V		D515	8-719-304-32	(RX410)....DIODE SEL4214S				
C305	1-124-963-11	ELECT	33MF	20%	16V		D516	8-719-304-32	(RX410)....DIODE SEL4214S				
C306	1-124-499-11	ELECT	1MF	20%	50V		D517	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C307	1-124-499-11	(RX55,RX55ES)...ELECT	1MF	20%	50V		D518	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C501	1-126-176-11	ELECT	220MF	20%	10V		D519	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C701	1-124-887-00	ELECT	3300MF	20%	16V		D520	8-719-304-38	(RX410)....DIODE SEL4414E-D				
C702	1-124-887-00	ELECT	3300MF	20%	16V		D521	8-719-304-32	(RX410)....DIODE SEL4214S				
C703	1-124-472-11	ELECT	470MF	20%	10V		D522	8-719-304-32	(RX410)....DIODE SEL4214S				
C704	1-124-472-11	ELECT	470MF	20%	10V		D523	8-719-304-32	(RX410)....DIODE SEL4214S				
C705	1-124-472-11	ELECT	470MF	20%	6.3V		D524	8-719-940-76	DIODE 1SS132				
C706	1-123-875-11	ELECT	10MF	20%	50V		D525	8-719-940-76	DIODE 1SS132				
C707	1-124-925-11	ELECT	2.2MF	20%	50V		D526	8-719-940-76	DIODE 1SS132				
C708	1-124-122-11	(RX55,RX55ES)...ELECT	100MF	20%	50V		D527	8-719-940-76	DIODE 1SS132				
C709	1-124-122-11	(RX55,RX55ES)...ELECT	100MF	20%	50V		D528	8-719-940-76	DIODE 1SS132				
C710	1-124-120-11	ELECT	220MF	20%	16V		D529	8-719-940-76	(RX410)....DIODE 1SS132				
C901△	1-161-744-00	CAP, CERAMIC 10000PF FZ					D530	8-719-940-76	(RX410)....DIODE 1SS132				
CF501	1-577-082-11	VIBRATOR, CERAMIC (4MHZ)					D531	8-719-940-76	(RX410)....DIODE 1SS132				
CNP11	*1-506-615-11	PIN, CONNECTOR 9P					D532	8-719-940-76	(RX410)....DIODE 1SS132				
CNP12	*1-564-337-00	(RX410).....PIN, CONNECTOR 3P					D533	8-719-940-76	(RX55,RX55ES)...DIODE 1SS132				
CNP12	*1-564-339-61	(RX55,RX55ES)....PIN, CONNECTOR 5P					D534	8-719-940-76	DIODE 1SS132				
CNP13	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P					D535	8-719-940-76	DIODE 1SS132				
CNP14	*1-564-704-11	(RX55,RX55ES)....PIN, CONNECTOR (SMALL TYPE) 2P					D701	8-719-940-76	DIODE 1SS132				
CNP21	*1-565-344-11	PIN, CONNECTOR (PC BOARD) 8P					D702	8-719-940-76	DIODE 1SS132				
CNP22	*1-565-347-11	SOCKET, CONNECTOR (PC BOARD) 8P					D703	8-719-200-77	DIODE 10E2N				
CNP81	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P					D704	8-719-200-77	DIODE 10E2N				
CNP82	*1-564-339-00	PIN, CONNECTOR 5P					D705	8-719-200-77	DIODE 10E2N				
CNP83	*1-564-338-00	PIN, CONNECTOR 4P					D706	8-719-200-77	DIODE 10E2N				
CNP505	*1-564-506-11	(RX410).....PLUG, CONNECTOR 3P					D707	8-719-940-76	DIODE 1SS132				
CNP505	*1-564-510-11	(RX55,RX55ES)....PLUG, CONNECTOR 7P					D708	8-719-200-77	(RX55,RX55ES)...DIODE 10E2N				
D11	8-719-940-76	DIODE 1SS132					D709	8-719-000-96	(RX55,RX55ES)...DIODE UZL-7H2				
D81	8-719-940-76	DIODE 1SS132					D710	8-719-934-23	(RX55,RX55ES)...DIODE HZS30-3L				
D101	8-719-940-76	DIODE 1SS132					D712	8-719-210-77	DIODE 10E2N				
D201	8-719-940-76	DIODE 1SS132					D713	1-807-913-21	DIODE 11EQS04				
D301	8-719-010-34	DIODE UZ-4.7BSC					D714	1-807-913-21	DIODE 11EQS04				
D501	8-719-301-38	LED SEL2210S-C					D715	1-807-913-21	(RX55,RX55ES)...DIODE 11EQS04				
D502	8-719-301-60	LED SEL2910A-C					FL501	1-519-493-11	(RX55,RX55ES)...INDICATOR TUBE, FLUORESCENT				
D503	8-719-301-43	LED SEL2410E-C					IC21	8-759-133-90	IC UPC339C				
							IC81	8-759-111-44	IC UPC4570C-1				
							IC91	8-759-106-56	IC UPC1297CA				
							IC301	8-752-018-70	IC CX20187				
							IC302	8-759-600-02	IC M5218L				
							IC303	8-759-600-02	IC M5218L				

**Note:**  
The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.

**Note:**  
Les composants identifiés par une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
IC304	8-759-945-58	IC RC4558P
IC305	8-752-033-61	IC CXA1198AP
IC306	8-759-240-52	IC TC14052BP
IC501	8-759-633-24	IC M50940-135SP
IC502	8-741-161-00	IC SBX1610-51
IC701	8-759-604-29	IC M5F7805
IC702	8-759-604-86	IC M5F7807
IC703	8-759-604-90	IC M5F7907
J301	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)
J302	1-507-796-71	JACK (MICROPHONE)
J303	1-507-797-21	JACK, LARGE TYPE (HEADPHONES)
L41	1-410-780-11	INDUCTOR 27MMH
L61	1-410-780-11	INDUCTOR 27MMH
LPF101	1-236-475-11	FILTER, LOW PASS
LPF201	1-236-475-11	FILTER, LOW PASS
PM901	1-454-456-11	SOLENOID, PLUNGER
Q11	8-729-173-38	TRANSISTOR 2SA733
Q12	8-719-939-23	PHOTO TRANSISTOR GP2S09-C
Q21	8-729-806-20	TRANSISTOR 2SA1345
Q81	8-729-801-83	TRANSISTOR 2SB1013
Q82	8-729-101-93	(RX410).....TRANSISTOR 2SC945L
Q82	8-729-119-78	(RX55,RX55ES)....TRANSISTOR 2SC2785
Q83	8-729-101-93	(RX410).....TRANSISTOR 2SC945L
Q83	8-729-119-78	(RX55,RX55ES)....TRANSISTOR 2SC2785
Q101	8-729-119-78	(RX55,RX55ES)....TRANSISTOR 2SC2785
Q102	8-729-119-78	(RX410)....TRANSISTOR 2SC2785
Q103	8-729-119-78	TRANSISTOR 2SC2785
Q104	8-729-900-80	TRANSISTOR DTC114ES
Q105	8-729-900-80	TRANSISTOR DTC114ES
Q201	8-729-119-78	(RX55,RX55ES)....TRANSISTOR 2SC2785
Q202	8-729-119-78	TRANSISTOR 2SC2785
Q203	8-729-119-78	TRANSISTOR 2SC2785
Q204	8-729-900-80	TRANSISTOR DTC114ES
Q205	8-729-900-80	TRANSISTOR DTC114ES
Q301	8-729-900-61	TRANSISTOR DTA114ES
Q302	8-729-900-61	TRANSISTOR DTA114ES
Q303	8-729-900-61	TRANSISTOR DTA114ES
Q304	8-729-900-61	TRANSISTOR DTA114ES
Q305	8-729-900-61	TRANSISTOR DTA114ES
Q306	8-729-801-93	TRANSISTOR 2SD1387
Q307	8-729-900-65	TRANSISTOR DTA114ES
Q308	8-729-900-65	TRANSISTOR DTA114ES
Q309	8-729-173-38	TRANSISTOR 2SA733
Q501	8-729-900-61	TRANSISTOR DTA114ES
Q502	8-729-900-61	TRANSISTOR DTA114ES
Q503	8-729-900-61	TRANSISTOR DTA114ES
Q504	8-729-900-61	TRANSISTOR DTA114ES
Q505	8-729-900-61	TRANSISTOR DTA114ES
Q506	8-729-900-63	TRANSISTOR DTA124ES
Q507	8-729-900-61	TRANSISTOR DTA114ES
Q508	8-729-801-93	TRANSISTOR 2SD1387
Q509	8-729-801-83	TRANSISTOR 2SB1013
Q510	8-729-900-80	TRANSISTOR DTC114ES
Q511	8-729-900-80	TRANSISTOR DTC114ES
Q512	8-729-900-80	TRANSISTOR DTC114ES
Q701	8-729-118-01	(RX55,RX55ES)....TRANSISTOR 2SB1116

Ref.No.	Part No.	Description
R11	1-247-834-11	CARBON 1.3K 5% 1/4W
R12	1-249-414-11	CARBON 560 5% 1/4W
R13	1-247-818-11	CARBON 300 5% 1/4W
R14	1-249-408-11	CARBON 180 5% 1/4W
R17	1-249-437-11	CARBON 47K 5% 1/4W
R18	1-249-437-11	CARBON 47K 5% 1/4W
R21	1-249-425-11	CARBON 4.7K 5% 1/4W
R22	1-249-421-11	CARBON 2.2K 5% 1/4W
R23	1-249-421-11	CARBON 2.2K 5% 1/4W
R24	1-249-423-11	CARBON 3.3K 5% 1/4W
R25	1-249-429-11	CARBON 10K 5% 1/4W
R26	1-249-430-11	(RX410).....CARBON 12K 5% 1/4W
R26	1-249-431-11	(RX55,RX55ES)....CARBON 15K 5% 1/4W
R27	1-247-838-00	(RX410).....CARBON 2K 5% 1/4W
R27	1-249-425-11	(RX55,RX55ES)....CARBON 4.7K 5% 1/4W
R28	1-249-419-11	(RX410).....CARBON 1.5K 5% 1/4W
R28	1-249-425-11	(RX55,RX55ES)....CARBON 4.7K 5% 1/4W
R29	1-249-420-11	(RX55,RX55ES)....CARBON 1.8K 5% 1/4W
R41	1-247-881-00	(RX410).....CARBON 120K 5% 1/4W
R41	1-249-435-11	(RX55,RX55ES)....CARBON 33K 5% 1/4W
R42	1-249-404-00	(RX55,RX55ES)....CARBON 82 5% 1/4W
R42	1-249-405-11	(RX410).....CARBON 100 5% 1/4W
R43	1-247-882-11	CARBON 130K 5% 1/4W
R44	1-249-426-11	CARBON 5.6K 5% 1/4W
R45	1-249-428-11	(RX55,RX55ES)....CARBON 8.2K 5% 1/4W
R45	1-249-430-11	(RX410).....CARBON 12K 5% 1/4W
R51	1-249-434-11	(RX410).....CARBON 27K 5% 1/4W
R51	1-249-435-11	(RX55,RX55ES)....CARBON 33K 5% 1/4W
R52	1-249-393-11	CARBON 10 5% 1/4W
R53	1-247-883-00	CARBON 150K 5% 1/4W
R54	1-249-429-11	(RX55,RX55ES)....CARBON 10K 5% 1/4W
R54	1-249-433-11	(RX410).....CARBON 22K 5% 1/4W
R61	1-247-881-00	(RX410).....CARBON 120K 5% 1/4W
R61	1-249-435-11	(RX55,RX55ES)....CARBON 33K 5% 1/4W
R62	1-249-404-00	(RX55,RX55ES)....CARBON 82 5% 1/4W
R62	1-249-405-11	(RX410).....CARBON 100 5% 1/4W
R63	1-247-882-11	CARBON 130K 5% 1/4W
R64	1-249-426-11	CARBON 5.6K 5% 1/4W
R65	1-249-428-11	(RX55,RX55ES)....CARBON 8.2K 5% 1/4W
R65	1-249-430-11	(RX410).....CARBON 12K 5% 1/4W
R71	1-249-434-11	(RX410).....CARBON 27K 5% 1/4W
R71	1-249-435-11	(RX55,RX55ES)....CARBON 33K 5% 1/4W
R72	1-249-393-11	CARBON 10 5% 1/4W
R73	1-247-883-00	CARBON 150K 5% 1/4W
R74	1-249-429-11	(RX55,RX55ES)....CARBON 10K 5% 1/4W
R74	1-249-433-11	(RX410).....CARBON 22K 5% 1/4W
R81	1-249-409-11	CARBON 220 5% 1/4W
R82	1-249-409-11	CARBON 220 5% 1/4W
R84	1-212-849-00	FUSIBLE 4.7 5% 1/4W F
R85	1-249-437-11	CARBON 47K 5% 1/4W
R86	1-249-437-11	CARBON 47K 5% 1/4W
R87	1-249-429-11	CARBON 10K 5% 1/4W

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description				
R88	1-249-429-11	CARBON	10K	5%	1/4W		R215	1-249-427-11	CARBON	6.8K	5%	1/4W	
R101	1-249-417-11	CARBON	1K	5%	1/4W		R216	1-249-415-11	CARBON	680	5%	1/4W	
R102	1-249-435-11	CARBON	33K	5%	1/4W		R217	1-249-426-11	(RX410).....CARBON	5.6K	5%	1/4W	
R103	1-249-429-11	CARBON	10K	5%	1/4W		R217	1-249-427-11	(RX55,RX55ES)....CARBON	6.8K	5%	1/4W	
R104	1-249-411-11	CARBON	330	5%	1/4W		R218	1-249-421-11	(RX410).....CARBON	2.2K	5%	1/4W	
R105	1-249-434-11	CARBON	27K	5%	1/4W		R218	1-249-425-11	(RX55,RX55ES)....CARBON	4.7K	5%	1/4W	
R106	1-249-437-11	CARBON	47K	5%	1/4W		R219	1-249-425-11	(RX410).....CARBON	4.7K	5%	1/4W	
R107	1-249-429-11	(RX55,RX55ES)....CARBON	10K	5%	1/4W		R219	1-249-429-11	(RX55,RX55ES)....CARBON	10K	5%	1/4W	
R108	1-249-417-11	CARBON	1K	5%	1/4W		R220	1-249-433-11	CARBON	22K	5%	1/4W	
R109	1-249-441-11	(RX55,RX55ES)....CARBON	100K	5%	1/4W		R221	1-249-421-11	CARBON	2.2K	5%	1/4W	
R110	1-249-423-11	CARBON	3.3K	5%	1/4W		R222	1-249-421-11	CARBON	2.2K	5%	1/4W	
R111	1-249-428-11	CARBON	8.2K	5%	1/4W		R223	1-249-421-11	CARBON	2.2K	5%	1/4W	
R112	1-247-840-00	CARBON	2.4K	5%	1/4W		R224	1-249-429-11	CARBON	10K	5%	1/4W	
R113	1-247-846-11	CARBON	4.3K	5%	1/4W		R225	1-247-840-00	CARBON	2.4K	5%	1/4W	
R114	1-247-822-11	CARBON	430	5%	1/4W		R226	1-249-409-11	CARBON	220	5%	1/4W	
R115	1-249-427-11	CARBON	6.8K	5%	1/4W		R227	1-249-434-11	CARBON	27K	5%	1/4W	
R116	1-249-415-11	CARBON	680	5%	1/4W		R228	1-249-434-11	CARBON	27K	5%	1/4W	
R117	1-249-426-11	(RX410).....CARBON	5.6K	5%	1/4W		R229	1-247-862-11	CARBON	20K	5%	1/4W	
R117	1-249-427-11	(RX55,RX55ES)....CARBON	6.8K	5%	1/4W		R230	1-249-397-11	CARBON	22	5%	1/4W	
R118	1-249-421-11	(RX410).....CARBON	2.2K	5%	1/4W		R231	1-249-424-11	CARBON	3.9K	5%	1/4W	
R118	1-249-425-11	(RX55,RX55ES)....CARBON	4.7K	5%	1/4W		R232	1-247-887-00	CARBON	220K	5%	1/4W	
R119	1-249-425-11	(RX410).....CARBON	4.7K	5%	1/4W		R233	1-249-424-11	CARBON	3.9K	5%	1/4W	
R119	1-249-429-11	(RX55,RX55ES)....CARBON	10K	5%	1/4W		R234	1-249-412-11	CARBON	390	5%	1/4W	
R120	1-249-433-11	CARBON	22K	5%	1/4W		R235	1-247-840-00	CARBON	2.4K	5%	1/4W	
R121	1-249-421-11	CARBON	2.2K	5%	1/4W		R236	1-249-441-11	CARBON	100K	5%	1/4W	
R122	1-249-421-11	CARBON	2.2K	5%	1/4W		R237	1-249-425-11	(RX55,RX55ES)....CARBON	4.7K	5%	1/4W	
R123	1-249-421-11	CARBON	2.2K	5%	1/4W		R237	1-249-429-11	(RX410).....CARBON	10K	5%	1/4W	
R124	1-249-429-11	CARBON	10K	5%	1/4W		R238	1-249-431-11	CARBON	15K	5%	1/4W	
R125	1-247-840-00	CARBON	2.4K	5%	1/4W		R301	1-249-413-11	CARBON	470	5%	1/4W	
R126	1-249-409-11	CARBON	220	5%	1/4W		R302	1-249-413-11	CARBON	470	5%	1/4W	
R127	1-249-434-11	CARBON	27K	5%	1/4W		R303	1-249-435-11	CARBON	33K	5%	1/4W	
R128	1-249-434-11	CARBON	27K	5%	1/4W		R304	1-215-469-00	METAL	100K	1%	1/6W	
R129	1-247-862-11	CARBON	20K	5%	1/4W		R305	1-249-429-11	(RX55,RX55ES)....CARBON	10K	5%	1/4W	
R130	1-249-397-11	CARBON	22	5%	1/4W		R306	1-249-435-11	CARBON	33K	5%	1/4W	
R131	1-249-424-11	CARBON	3.9K	5%	1/4W		R307	1-249-429-11	CARBON	10K	5%	1/4W	
R132	1-247-887-00	CARBON	220K	5%	1/4W		R308	1-247-864-11	CARBON	24K	5%	1/4W	
R133	1-249-424-11	CARBON	3.9K	5%	1/4W		R309	1-247-881-00	(RX55,RX55ES)....CARBON	120K	5%	1/4W	
R134	1-249-412-11	CARBON	390	5%	1/4W		R309	1-249-438-11	(RX410).....CARBON	56K	5%	1/4W	
R135	1-247-840-00	CARBON	2.4K	5%	1/4W		R310	1-249-437-11	(RX55,RX55ES)....CARBON	47K	5%	1/4W	
R136	1-249-441-11	CARBON	100K	5%	1/4W		R310	1-249-440-11	(RX410).....CARBON	82K	5%	1/4W	
R137	1-249-425-11	(RX55,RX55ES)....CARBON	4.7K	5%	1/4W		R311	1-247-882-11	(RX410).....CARBON	130K	5%	1/4W	
R137	1-249-429-11	(RX410).....CARBON	10K	5%	1/4W		R311	1-247-883-00	(RX55,RX55ES)....CARBON	150K	5%	1/4W	
R138	1-249-431-11	CARBON	15K	5%	1/4W		R312	1-249-438-11	(RX410).....CARBON	56K	5%	1/4W	
R201	1-249-417-11	CARBON	1K	5%	1/4W		R312	1-249-440-11	(RX55,RX55ES)....CARBON	82K	5%	1/4W	
R202	1-249-435-11	CARBON	33K	5%	1/4W		R313	1-249-435-11	(RX410).....CARBON	33K	5%	1/4W	
R203	1-249-429-11	CARBON	10K	5%	1/4W		R313	1-249-436-11	(RX55,RX55ES)....CARBON	39K	5%	1/4W	
R204	1-249-411-11	CARBON	330	5%	1/4W		R314	1-247-870-11	(RX410).....CARBON	43K	5%	1/4W	
R205	1-249-434-11	CARBON	27K	5%	1/4W		R314	1-249-435-11	(RX55,RX55ES)....CARBON	33K	5%	1/4W	
R206	1-249-437-11	CARBON	47K	5%	1/4W		R315	1-247-883-00	(RX410).....CARBON	150K	5%	1/4W	
R207	1-249-429-11	(RX55,RX55ES)....CARBON	10K	5%	1/4W		R315	1-247-891-00	(RX55,RX55ES)....CARBON	330K	5%	1/4W	
R208	1-249-417-11	CARBON	1K	5%	1/4W		R316	1-247-878-00	(RX410).....CARBON	91K	5%	1/4W	
R209	1-249-441-11	(RX55,RX55ES)....CARBON	100K	5%	1/4W		R316	1-249-438-11	(RX55,RX55ES)....CARBON	56K	5%	1/4W	
R210	1-249-423-11	CARBON	3.3K	5%	1/4W		R317	1-247-881-00	CARBON	120K	5%	1/4W	
R211	1-249-428-11	CARBON	8.2K	5%	1/4W								
R212	1-247-840-00	CARBON	2.4K	5%	1/4W								
R213	1-247-846-11	CARBON	4.3K	5%	1/4W								
R214	1-247-822-11	CARBON	430	5%	1/4W								



Ref.No.	Part No.	Description				Ref.No.	Part No.	Description					
R318	1-247-874-11	(RX410).....	CARBON	62K	5%	1/4W	R527	1-249-433-11	CARBON	22K	5%	1/4W	
R318	1-249-441-11	(RX55,RX55ES)...	CARBON	100K	5%	1/4W	R528	1-247-727-11	CARBON	10	5%	1/2W	
R319	1-249-437-11	CARBON	47K	5%	1/4W	R529	1-249-420-11	CARBON	1.8K	5%	1/4W		
R320	1-247-874-11	(RX55,RX55ES)...	CARBON	62K	5%	1/4W	R530	1-249-433-11	CARBON	22K	5%	1/4W	
R320	1-249-440-11	(RX410).....	CARBON	82K	5%	1/4W	R531	1-249-415-11	(RX410)...	CARBON	680	5%	1/4W
R321	1-247-887-00	(RX410).....	CARBON	220K	5%	1/4W	R532	1-249-442-11	(RX410)...	CARBON	510	5%	1/4W
R321	1-249-435-11	(RX55,RX55ES)...	CARBON	33K	5%	1/4W	R533	1-249-411-11	(RX410)...	CARBON	330	5%	1/4W
R322	1-247-881-00	(RX410).....	CARBON	120K	5%	1/4W	R534	1-247-814-11	(RX410)...	CARBON	200	5%	1/4W
R322	1-249-441-11	(RX55,RX55ES)...	CARBON	100K	5%	1/4W	R535	1-249-415-11	(RX410)...	CARBON	680	5%	1/4W
R323	1-249-438-11	(RX55,RX55ES)...	CARBON	56K	5%	1/4W	R536	1-249-442-11	(RX410)...	CARBON	510	5%	1/4W
R323	1-249-440-11	(RX410).....	CARBON	82K	5%	1/4W	R537	1-249-411-11	(RX410)...	CARBON	330	5%	1/4W
R324	1-249-434-11	CARBON	27K	5%	1/4W	R538	1-247-832-11	(RX410)...	CARBON	1.1K	5%	1/4W	
R325	1-247-872-11	(RX55,RX55ES)...	CARBON	51K	5%	1/4W	R539	1-247-830-11	(RX410)...	CARBON	910	5%	1/4W
R325	1-249-438-11	(RX410).....	CARBON	56K	5%	1/4W	R540	1-247-826-00	(RX410)...	CARBON	620	5%	1/4W
R326	1-249-429-11	CARBON	10K	5%	1/4W	R541	1-247-832-11	(RX410)...	CARBON	1.1K	5%	1/4W	
R327	1-249-437-11	CARBON	47K	5%	1/4W	R542	1-247-830-11	(RX410)...	CARBON	910	5%	1/4W	
R328	1-249-417-11	CARBON	1K	5%	1/4W	R543	1-247-826-00	(RX410)...	CARBON	620	5%	1/4W	
R329	1-249-413-11	CARBON	470	5%	1/4W	R544	1-249-409-11	CARBON	220	5%	1/4W		
R330	1-249-417-11	CARBON	1K	5%	1/4W	R545	1-249-409-11	CARBON	220	5%	1/4W		
R331	1-249-425-11	CARBON	4.7K	5%	1/4W	R546	1-249-409-11	CARBON	220	5%	1/4W		
R332	1-249-429-11	CARBON	10K	5%	1/4W	R547	1-249-421-11	CARBON	2.2K	5%	1/4W		
R333	1-249-419-11	CARBON	1.5K	5%	1/4W	R548	1-249-421-11	CARBON	2.2K	5%	1/4W		
R334	1-249-425-11	CARBON	4.7K	5%	1/4W	R701	1-249-403-11	CARBON	68	5%	1/4W		
R335	1-249-437-11	CARBON	47K	5%	1/4W	R702	1-249-403-11	CARBON	68	5%	1/4W		
R336	1-249-428-11	CARBON	8.2K	5%	1/4W	R703	1-249-417-11	CARBON	1K	5%	1/4W		
R337	1-249-423-11	CARBON	3.3K	5%	1/4W	R704	1-249-441-11	CARBON	100K	5%	1/4W		
R338	1-247-840-00	CARBON	2.4K	5%	1/4W	R705	1-249-433-11	(RX55,RX55ES)...	CARBON	62K	5%	1/4W	
R339	1-247-876-11	(RX410).....	CARBON	75K	5%	1/4W	RV41	1-228-990-00	RES, ADJ, CARBON	1K			
R339	1-249-439-11	(RX55,RX55ES)...	CARBON	68K	5%	1/4W	RV42	1-230-497-11	RES, ADJ, CARBON	22K			
R340	1-249-417-11	CARBON	1K	5%	1/4W	RV61	1-228-990-00	RES, ADJ, CARBON	1K				
R341	1-249-413-11	CARBON	470	5%	1/4W	RV62	1-230-497-11	RES, ADJ, CARBON	22K				
R501	1-249-409-11	CARBON	220	5%	1/4W	RV101	1-228-994-00	RES, ADJ, CARBON	10K				
R502	1-249-412-11	CARBON	390	5%	1/4W	RV201	1-228-994-00	RES, ADJ, CARBON	10K				
R503	1-249-420-11	CARBON	1.8K	5%	1/4W	RV301	1-238-097-11	RES, VAR, CARBON	20K/20K (REC LEVEL)				
R504	1-249-422-11	CARBON	2.7K	5%	1/4W	RY81	1-515-614-11	RELAY					
R505	1-249-428-11	CARBON	8.2K	5%	1/4W	S11	1-571-281-21	SWITCH, LEAF (HALF DET)					
R506	1-249-409-11	CARBON	220	5%	1/4W	S12	1-571-281-21	SWITCH, LEAF (REC PROOF (A))					
R507	1-249-412-11	CARBON	390	5%	1/4W	S13	1-571-281-21	SWITCH, LEAF (REC PROOF (B))					
R508	1-249-415-11	CARBON	680	5%	1/4W	S14	1-571-281-21	SWITCH, LEAF (CrO <sub>2</sub> )					
R509	1-249-418-11	CARBON	1.2K	5%	1/4W	S15	1-571-281-21	SWITCH, LEAF (METAL)					
R510	1-249-422-11	CARBON	2.7K	5%	1/4W	S501	1-554-303-21	SWITCH, KEY BOARD (■)					
R511	1-249-428-11	(RX55,RX55ES)...	CARBON	8.2K	5%	1/4W	S502	1-554-303-21	SWITCH, KEY BOARD (II)				
R512	1-249-417-11	CARBON	1K	5%	1/4W	S503	1-554-303-21	SWITCH, KEY BOARD (►)					
R514	1-249-436-11	CARBON	39K	5%	1/4W	S504	1-554-303-21	SWITCH, KEY BOARD (◄)					
R513	1-249-425-11	CARBON (RX55,RX55ES)...	4.7K	5%	1/4W	S505	1-554-303-21	SWITCH, KEY BOARD (●)					
R515	1-249-436-11	CARBON	39K	5%	1/4W	S506	1-554-303-21	SWITCH, KEY BOARD (◀)					
R516	1-247-895-00	CARBON	470K	5%	1/4W	S507	1-554-303-21	SWITCH, KEY BOARD (▶)					
R517	1-247-895-00	CARBON	470K	5%	1/4W	S508	1-554-303-21	SWITCH, KEY BOARD (○)					
R518	1-249-437-11	CARBON	47K	5%	1/4W	S509	1-554-303-21	(RX55,RX55ES)...	SWITCH, KEY BOARD (COUNTER RESET)				
R519	1-249-412-11	CARBON	390	5%	1/4W	S510	1-554-303-21	(RX55,RX55ES)...	SWITCH, KEY BOARD (COUNTER MEMORY)				
R520	1-249-410-11	CARBON	270	5%	1/4W	S511	1-571-305-11	SWITCH, PUSH (1 KEY) (DIRECTION MODE)					
R521	1-249-409-11	CARBON	220	5%	1/4W	S512	1-571-305-11	(RX55,RX55ES)...	SWITCH, PUSH (1 KEY) (MPX FILTER)				
R522	1-249-411-11	CARBON	330	5%	1/4W	S513	1-571-305-11	SWITCH, PUSH (1 KEY) (DOLBY B/C)					
R523	1-249-411-11	CARBON	330	5%	1/4W								
R524	1-249-437-11	CARBON	47K	5%	1/4W								
R525	1-247-903-00	CARBON	1M	5%	1/4W								
R526	1-249-417-11	CARBON	1K	5%	1/4W								

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
S514	1-571-305-11	SWITCH, PUSH (1 KEY)(DOLBY NR)
S515	1-554-423-00	(RX55,RX55ES)...SWITCH, SLIDE (TIMER)
S901  .1-553-318-71		SWITCH, PUSH (AC POWER)(1 KEY)
S902	1-571-028-11	(RX55,RX55ES)...SWITCH, LEAF (DIRECTION)
SPK101	1-235-186-00	ENCAPSULATED COMPONENT
SPK201	1-235-186-00	ENCAPSULATED COMPONENT
T51	1-433-335-11	TRANSFORMER, BIAS OSCILLATION
T71	1-433-335-11	TRANSFORMER, BIAS OSCILLATION
T81	1-433-336-11	TRANSFORMER, BIAS OSCILLATION
T901  .1-449-596-11		(RX55ES,RX55:Canadian/E2) ...TRANSFORMER, POWER
T901  .1-449-597-11		(RX55:AEP/UK/E3)...TRANSFORMER, POWER
T901  .1-449-598-11		(RX410).....TRANSFORMER, POWER
TP83	*1-564-338-00	PIN, CONNECTOR 4P
TP91	*1-564-508-11	PLUG, CONNECTOR 5P

ACCESSORY & PACKING MATERIAL

1-559-533-11	CORD, CONNECTION
*3-332-556-01	(RX55ES)...INDIVIDUAL CARTON
*3-332-556-51	(RX55).....INDIVIDUAL CARTON
*3-332-556-71	(RX410)....INDIVIDUAL CARTON
*3-349-005-01	CUSHION
3-701-630-00	BAG, POLYETHYLENE
3-703-450-01	(US)...INSTRUCTION
3-750-181-21	(RX410).....MANUAL, INSTRUCTION (English)
3-750-181-31	(RX410:Canadian)...MANUAL, INSTRUCTION (French)
3-750-118-11	(RX55:Canadian/AE1/AE2/E2/E3) .....MANUAL, INSTRUCTION(English, French, Spanish)
3-750-118-21	(RX55ES).....MANUAL, INSTRUCTION(English)
3-750-118-41	(RX55:AE1/AE2/E3).....MANUAL, INSTRUCTION(German, Dutch, Swedish, Italian)
3-750-118-51	(RX55:West Germany)...MANUAL, INSTRUCTION(German)
3-750-118-61	(RX55:UK).....MANUAL, INSTRUCTION(English)

**Note:**  
The components identified by mark  or dotted line with mark  are critical for safety.  
Replace only with part number specified.

**Note:**  
Les composants identifiés par une marque  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

English

89C0580-1

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Sony Corporation  
Audio Group

9-953-654-11

# TC-RX55/RX55ES/RX410

## SONY® SERVICE MANUAL

US Model

TC-RX55ES/RX410

Canadian Model

TC-RX55/RX410

AEP Model

UK Model

E Model

TC-RX55

## SUPPLEMENT-1

Subject: Adjustment Item Addition

### Bias Consumption Current Adjustment

**Note:** Perform this adjustment before Record Bias Adjustment only when replacing head, IC91, or step-up transformers (T51, T71).

**Adjustment Location:** HX PRO board

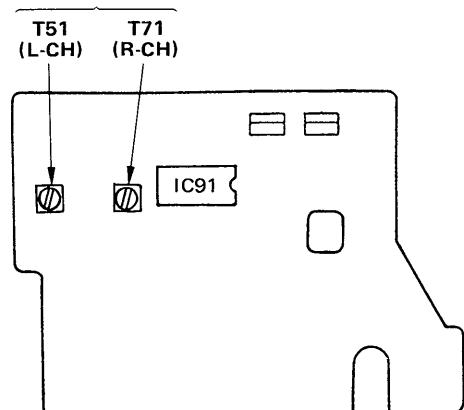
#### Setting:

REC LEVEL control: standard record  
(See service manual page 4.)

#### Procedure:

1. Set RV42 and RV62 to mechanical center.
2. Set blank tape (CS-412) and record on no-signal conditions.
3. Adjust T51 (L-CH), T71 (R-CH) so that the voltage between pin (3) - (5) (L-CH), pin (3) - (1) (R-CH) of TP91 is minimum.
4. Perform Record Bias Adjustment and Record Level Adjustment.

#### Bias consumption current adjustment



Schematic diagram and electrical parts list have been changed because of resistors value change.

Ref. No.	Former					New				
	Part No.	Description				Part No.	Description			
R26	1-249-430-11	(RX410) ... CARBON	12K	5%	1/4W	1-249-433-11	(RX410) ... CARBON	22K	5%	1/4W
R27	1-247-838-00	(RX410) ... CARBON	2K	5%	1/4W	1-249-429-11	(RX410) ... CARBON	10K	5%	1/4W
R28	1-249-419-11	(RX410) ... CARBON	1.5K	5%	1/4W	1-249-428-11	(RX410) ... CARBON	8.2K	5%	1/4W
R53	1-247-883-00	CARBON	150K	5%	1/4W	1-247-883-00	(RX55, RX55ES) ... CARBON	150K	5%	1/4W
						1-247-887-11	(RX410) ... CARBON	220K	5%	1/4W
R54	1-249-433-11	(RX410) ... CARBON	22K	5%	1/4W	1-247-862-11	(RX410) ... CARBON	20K	5%	1/4W
R73	1-247-883-00	CARBON	150K	5%	1/4W	1-247-883-00	(RX55, RX55ES) ... CARBON	150K	5%	1/4W
						1-247-887-11	(RX410) ... CARBON	220K	5%	1/4W
R74	1-249-433-11	(RX410) ... CARBON	22K	5%	1/4W	1-247-862-11	(RX410) ... CARBON	20K	5%	1/4W
R318	1-247-874-11	(RX410) ... CARBON	62K	5%	1/4W	1-247-872-11	(RX410) ... CARBON	51K	5%	1/4W
R319	1-249-437-11	CARBON	47K	5%	1/4W	1-247-872-11	(RX410) ... CARBON	51K	5%	1/4W
						1-249-437-11	(RX55, RX55ES) ... CARBON	47K	5%	1/4W
R320	1-249-440-11	(RX410) ... CARBON	82K	5%	1/4W	1-247-876-11	(RX410) ... CARBON	75K	5%	1/4W

## CORRECTION

 : corrected portion

### Service Manual Page 1: SPECIFICATIONS

Frequency response

DOLBY NR OFF

TC-RX55/RX55ES:

- With TYPE IV cassette (Sony METAL-ES)  
20–20,000 Hz ( $\pm 3$  dB) (TC-RX55ES)
- 30–18,000 Hz ( $\pm 3$  dB) (TC-RX55)
- 30–15,000 Hz ( $\pm 3$  dB, OVU recording)
- With TYPE II cassette (Sony UX-S)  
30–17,000 Hz ( $\pm 3$  dB)
- With TYPE I cassette (Sony HF-S)  
30–15,000 Hz ( $\pm 3$  dB)

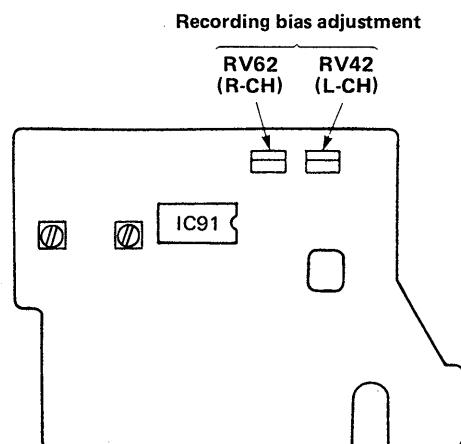
### Service Manual Page 14: Schematic diagram's note addition

- Value of resistors and capacitors.  
no mark: TC-RX55/RX55ES  
(): TC-RX410

### Service Manual Page 6: Adjustment Location

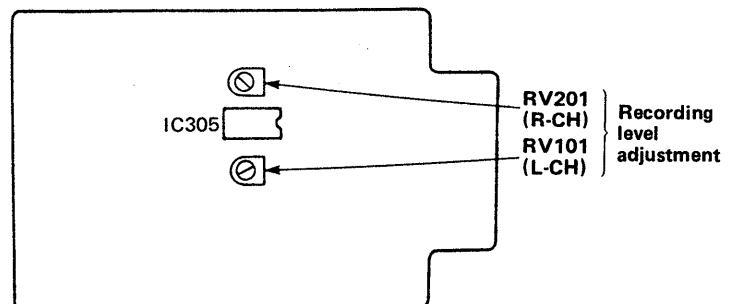
#### Record Bias Adjustment

HX PRO board



#### Record Level Adjustment

MAIN board



**Note:** Blank tape used in Record Bias Adjustment and Record Level Adjustment has been changed from CS-17 to CS-122.

New type and old type blank tapes are shown in the following list.

#### Blank Tape

Type	Old type tape	New type tape	New type tape part No.
TYPE I	CS-17	CS-122	8-892-331-56
TYPE II	CS-26	CS-222	8-892-331-55
TYPE IV	CS-42	CS-412	8-892-324-39

### Service Manual Page 24: ACCESSORY & PACKING MATERIAL

INCORRECT	CORRECT
*3-332-556-01 (RX55ES) . . . . . INDIVIDUAL CARTON	*3-332-556-61 (RX55ES) . . . . . INDIVIDUAL CARTON

# TC-RX55/RX55ES/RX410

**SONY®**  
**SERVICE MANUAL**

*US Model*

TC-RX55ES/RX410

*Canadian Model*

TC-RX55/RX410

*AEP Model*

*UK Model*

*E Model*

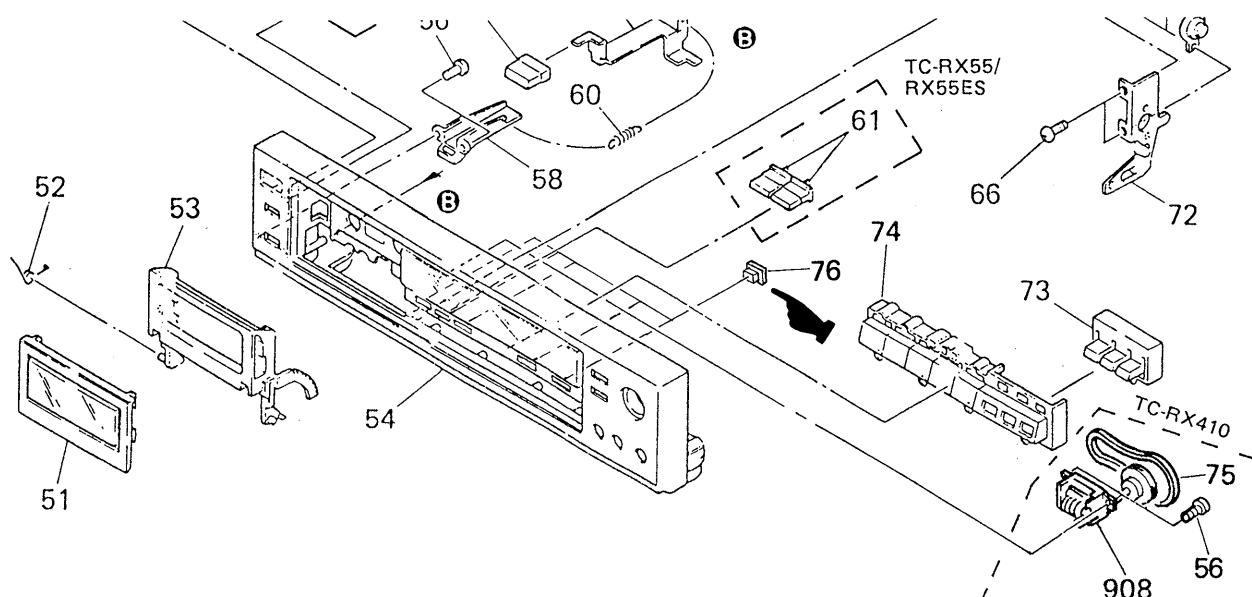
TC-RX55

## CORRECTION-1

Please correct your service manual.

Page 16

▶ : Additional part



No.	Part No.	Description
76	3-340-195-02	INDICATOR